Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
LI	98	570/101	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/22 14:18
L2	692	560/8	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/22 14:15
L3	1	L1 and L2	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/22 14:15
L4	55	570/203	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/22 14:19
S1	8	"4778940"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:22
S2	. 4	"4788353"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:23
S3	4	"4788354"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2,007/06/09 19:26
S4	2100258	benzoic acid	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:27
S5	11097	iodination	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:27
S6	10758	S4 and S5	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:27
S7	85509	zeolite	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:27
S8	10758	S5 and S6	US-PGPUB; USPAT; EPO; DERWENT	OR	ON .	2007/06/09 19:27

S9	2012962	oxidizing agent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:27
S10	10169	S8 and S9	US-PGPUB; USPAT; EPO; DERWENT	OR ·	ON	2007/06/09 19:28
S11	518871	acetic anhydride	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:28
S12	4562	S10 and S11	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:28
S13 ⁻	2099841	5-iodo-2-methylbenzoic acid	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:29
S14	4562	S12 and S13	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:29
S15	38170	sublimation	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/06/09 19:29
S16	37	S14 and S15	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:11
S17	2592707	halo substituted benzoic acid	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:12
S18	2115893	benzoic acid	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:13
S19	11207	iodination	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:13
S20	10865	S18 and S19	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:13
S21	2030739	Oxidizing agent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:13

S22	10273	S20 and S21	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:13
S23	86254	zeolite	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:14
S24	68	S22 and S23	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:19
S25	17505	halogenation	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:19
S26	15017	S25 and S18	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:19
S27	578	S26 and S23	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:20
S28	461	S27 and S21	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	. 2007/07/18 00:22
S29	2932383	iodination of aromatic acids	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:22
S30	1103028	S29 and S21	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:23
S31	35100	S30 and S23	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 00:23
S32	2	"4810826"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/18 08:14
S33	2	"6617344"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:13
S34	1306185	alkyl benzoic acid.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:13

S35	11218	iodination	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:14
S36	9417	S34 and S35	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:14
S37	362113	acetic anhydride.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:14
S38	4107	S36 and S37	US-PGPUB; USPAT; EPO; DERWENT	OR	ON .	2007/07/21 12:14
S39	16314	zeolite.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:15
S40	3	S38 and S39	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:18
S41	3	S40 and S37	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:18
S42	3	S41 and S34	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:18
S43	2032159	oxidizing agent	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:19
S44	732978	S34 and S43	US-PGPUB; USPAT; EPO; DERWENT	OR .	ON	2007/07/21 12:20
S45	242343	S44 and S37	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 12:20
S46	1504	S45 and S39	US-PGPUB; USPAT; EPO; DERWENT	OR.	ON	2007/07/21 12:24
S47	1061149	methyl benzoic acid.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR .	ON	2007/07/21 13:48

S48	16882	iodine.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:48
S49	13217	S47 and S48	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:48
S50	484178	microporous compound.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:48
S51 ·	8836	S49 and S50	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:48
S52	514576	oxidizing agent.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:49
S53	3517	S51 and S52	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:49
S54	362113	acetic anhydride.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:50
S55	1949	S53 and S54	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:50
S56 .	12400	purification.clm.	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:50
S57	23	S55 and S56	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:52
S58	2288943	iodinated aromatic acids	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:53
S59	5326682	process	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:53
S60	1158661	S58 and S59	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:54

S61	334145	S60 and S50	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:54
S62	118226	S61 and S52	US-PGPUB; USPAT; EPO; DERWENT	OR .	ON	2007/07/21 13:54
S63	55864	S62 and S54	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 13:55
S64	385	S63 and S56	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 14:02
S65		"5892138"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 14:39
S66	. 8	"4778940"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/21 16:31
S67	3	"5892138"	US-PGPUB; USPAT; EPO; DERWENT	OR	ON	2007/07/22 14:10

1 2 3 4 5 6

chain bonds :

2-11 4-7 5-10 7-8 7-9

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds: 5-10 7-8 7-9

exact bonds :

2-11 4-7

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom

10:Atom 11:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d L1

L1 HAS NO ANSWERS

L1 STR

Structure attributes must be viewed using STN Express query preparation.

=> s L1 full

FULL SEARCH INITIATED 19:07:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 648829 TO ITERATE

100.0% PROCESSED 648829 ITERATIONS

SEARCH TIME: 00.00.09

5222 SEA SSS FUL L1

=> s L1

L3

SAMPLE SEARCH INITIATED 19:07:39 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 32122 TO ITERATE

6.2% PROCESSED 2000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

17 ANSWERS

5222 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

> BATCH **COMPLETE**

PROJECTED ITERATIONS:

631725 TO 653155

PROJECTED ANSWERS:

4469 TO 6451

17 SEA SSS SAM L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY

SESSION

172.10

172.31

FULL ESTIMATED COST

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http://www.cas.org/infopolicy.html

=> s L4

79 L4 L_5

=> d L5 1-79 bib abs hitstr

ANSWER 1 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L5

ΑN 2006:117332 CAPLUS

DN 144:191984

Preparation of indanone potentiators of metabotropic glutamate receptors TI for use against neurol. and psychiatric disorders

Pinkerton, Anthony B.; Vernier, Jean-Michel; Cube, Rowena V.; Hutchinson, IN John H.; Bonnefous, Celine; Kamenecka, Theodore

PA Merck & Co., Inc., USA

PCT Int. Appl., 90 pp. SO CODEN: PIXXD2

DTPatent

English LΑ

FAN.CNT 1

	PATENT NO.				KIN	D	DATE			APPL	ICAT:	ION I	NO.		D?	ATE		
							-											
PI	I WO 2006015158			A1		2006	0209	1	WO 2	005-1	US26	867		20	050	726		
		W:	AE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KM,	KP,	KR,	ΚZ,
			LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,
			NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,
			SL.,	SM,	SY,	TJ,	TM,	TN,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UΖ,	VC,	VN,	YU,
			ZA,	ZM,	zw													

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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
                                    20060209
     AU 2005267883
                             A1
                                                  AU 2005-267883
                                                                            20050726
                                                  CA 2005-2574971
                                                                            20050726
     CA 2574971
                             A1
                                    20060209
     EP 1773792
                             A1
                                    20070418
                                                  EP 2005-778397
                                                                            20050726
          R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
PRAI US 2004-592549P
                                    20040730
                             Р
     WO 2005-US26867
                             W
                                    20050726
     CASREACT 144:191984; MARPAT 144:191984
os
GΙ
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AB The present invention is directed to indanones (some shown as I; variables defined below; e.g. 6,7-dichloro-2-cyclopentyl-2-methyl-5-[3-[4-(2Htetrazol-5-yl)phenoxy]propoxy]indan-1-one (shown as II)) that are potentiators of metabotropic glutamate receptors, including the mGluR2 receptor, and which are useful in the treatment or prevention of neurol. and psychiatric disorders associated with glutamate dysfunction and diseases in which metabotropic glutamate receptors are involved. The invention is also directed to pharmaceutical compns. comprising these compds. and the use of these compds. and compns. in the prevention or treatment of such diseases in which metabotropic glutamate receptors are involved. Although the methods of preparation are not claimed, prepns. and/or characterization data for .apprx.70 examples of I are included. For example, II was prepared in 2 steps by 1st condensing 6,7-dichloro-2-cyclopentyl-5-hydroxy-2methylindan-1-one with 4-(3-bromopropoxy) benzonitrile in the presence of K2CO3 to give 4-[3-[(6,7-dichloro-2-cyclopentyl-2-methyl-1-oxoindan-5yl)oxy]propoxy]benzonitrile, which was cyclized with trimethylsilyl azide in the presence of dibutyltin oxide. For I: A is Ph or pyridyl; W = tetrazolyl, CO2H, NHSO2C1-6-alkyl, NHSO2-Ph (Ph is (un)substituted with C1-6-alkyl) and CONHCO-C1-6alkyl; X = -0-, -S-, a bond, -0-phenyl-, -S-phenyl-, and -phenyl-; Y = -O-, -NH(CO)-, and a bond; R1a and R1b = H, (un) substituted C1-6alkyl, (un) substituted C3-7cycloalkyl and (un) substituted phenyl; R2 = halo, hydroxy, OC1-6-alkyl, and (un) substituted C1-6alkyl; R3 = halo and (un) substituted C1-6-alkyl; R4 may include multiple substituents and = H, halo, C1-6-alkyl and -O-C1-6alkyl, or R4 may be joined to the Ph ring at an adjacent C to form a dihydrofuranyl ring; m = 0-3; n = 0-6; addnl. details are given in the claims. EC50 values for potentiation of metabotropic glutamate receptor 2 by examples of I are generally .ltorsim.10 μM .

IT 87639-57-4, Dimethyl 4-bromophthalate

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of indanone potentiators of metabotropic glutamate receptors
for use against neurol. and psychiatric disorders)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1082673 CAPLUS

DN 145:271847

TI Inhibitors of phenylalanine ammonia-lyase (PAL): Synthesis and biological evaluation of 5-substituted 2-aminoindane-2-phosphonic acids

AU Zon, Jerzy; Miziak, Piotr; Amrhein, Nikolaus; Gancarz, Roman

CS Institute of Organic Chemistry, Biochemistry and Biotechnology, Wroclaw University of Technology, Wroclaw, PL-50-370, Pol.

SO Chemistry & Biodiversity (2005), 2(9), 1187-1194 CODEN: CBHIAM; ISSN: 1612-1872

PB Verlag Helvetica Chimica Acta AG

DT Journal

LA English

OS CASREACT 145:271847

GI

AB A series of 5-substituted derivs. of the potent phenylalanine ammonia-lyase (PAL) inhibitor 2-aminoindane-2-phosphonic acid (AIP) I (R = H) were synthesized. The AIP analogs I (R = NO2, NH2, Me, Br or OH) were tested as in vitro inhibitors of buckwheat PAL, and as in vivo inhibitors of anthocyanin biosynthesis. Within this series, the racemic 5-bromo and 5-Me congeners were biol. most active, although being ca. one order of magnitude less potent than AIP proper.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of bis(bromomethyl)benzenes as starting compound for amino(indane)phosphonic acid analogs via reduction of substituted phthalic acids followed by bromination)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2005:1050948 CAPLUS

DN 143:326196

TI Arylethynylphthalic acid derivative and method for producing the same

IN Urazoe, Daisuke; Mori, Hideto; Yamakawa, Katsuyoshi

PA Fuji Photo Film Co., Ltd., Japan

SO U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PAIN.	C1/1 T				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	US 2005215820	A1	20050929	US 2005-88728	20050325
	JP 2006076991	A	20060323	JP 2005-69965	20050311
	EP 1586569	A1	20051019	EP 2005-6819	. 20050329
	R: AT, BE, CH,	DE, DK	, ES, FR, GE	B, GR, IT, LI, LU,	NL, SE, MC, PT,
	IE, SI, LT,	LV, FI	, RO, MK, CY	, AL, TR, BG, CZ,	EE, HU, PL, SK,
	BA, HR, IS,	YU	•		
PRAI	JP 2004-90235	Α	20040325		
	JP 2004-232675	Α	20040809	•	
	JP 2005-69965	Α	20050311	,	
os	CASREACT 143:326196	; MARPA	T 143:326196	5	
GI	×		•		•

The invention provides arylethynylphthalic acid and derivs. thereof (including fluorine-containing compds.) Q1C.tplbond.CQ2 (Q1 = [substituted) aryl, Q2 = I, R1, R2 = alkyl, cycloalkyl, or aryl], and a method of producing these compds., in which the arylethynylphthalic anhydrides are formed by subjecting the arylphthalic acids to ring closing. Thus, heating 24.6 g di-Me 4-bromophthalate 12 h at 100° with 11.03 g, ethynylbenzene in presence of Ph3P, trans-dichlorobis(triphenylphosphine)p alladium, CuI in Et3N, hydrolysis of the resulting di-Me 4-phenylethynylphthalate, and refluxing the resulting 4-phenylethynylphthalic acid 4 h in PhMe containing Ac2O gave 4-phenylethynylphthalic anhydride.

IT 87639-57-4, Dimethyl 4-bromophthalate RL: RCT (Reactant); RACT (Reactant or reagent)

I

(precursor; arylethynylphthalic acid derivs.)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:680310 CAPLUS

DN 141:202384

TI Iodine-containing phthalic acid derivatives, liposomes containing them, and their uses as x-ray contrast agents and scintigraphic agents

IN Nishigaki, Junji; Takahashi, Kazunobu; Aikawa, Kazuhiro

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

GI

1.171.	ANT. CIVI I										
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE						
PI	JP 2004231625	A	20040819	JP 2003-25458	20030203						
PRAI	JP 2003-25458		20030203	•							
os	MARPAT 141:202384		* .								

AB The derivs. I (V1-V4 = H, substituent; ≥1 of V1-V4 = substituent; Ar1, Ar2 = H, alkyl, aryl; L1, L2 = divalent linking group; if Ar1 = Ar2 = H, then ≥1 of V1-V4 = iodine; if none of V1-V4 = iodine, then Ar1 and/or Ar2 = aryl having ≥1 iodine) or their salts are claimed. Liposomes containing I or their salts as membrane components are useful as x-ray contrast agents especially for imaging of vascular diseases and as scintigraphic agents if ≥1 iodine of I is radioisotope. I are metabolized by liver and not accumulated. Thus, liposomes containing dipalmitoylphosphatidylcholine, dipalmitoylphosphatidylserine, and I [V1 = V2 = V4 = iodine, V3 = H, L1Ar1 = L2Ar2 = (CH2)9Me] (preparation given) were effectively incorporated by vascular smooth muscle cells in a coculture system with macrophages.

IT 741265-94-1

them, and their uses as x-ray contrast agents and scintigraphic agents for imaging of artery diseases)

RN 741265-94-1 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-triiodo-, diundecyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 5 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:330840 CAPLUS

DN 140:365565

TI Photographic dry imaging material and method for image formation using the

IN Kimura, Sok Man Ho

PA Konica Minolta Holdings Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 59 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PAN.	CNT I						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
					'		
PI	JP 2004126201	A	20040422	JP 2002-289843	20021002		
PRAI	JP 2002-289843		20021002				
os	MARPAT 140:365565			•			
GT				•			

$$X^{11}$$
 X^{11}
 X

The title imaging material contains light-sensitive emulsion made of light-insensitive silver aliphatic carboxylate particles and light-sensitive silver halide particles, a reducing agent for Ag ions, a binder, and a crosslinking agent, wherein the light-sensitive silver halide grains are chemical sensitized and contain compound I (Z = S, -C(R13)(R13')-; R13, R13' = H, substituent; R11-12, R11'-12' = substituent; X11, X11' = H, substituent) and one of II(A, B = non metallic residual of heterocyclic ring; X-1 = ionic ion), R13-S-M, and R41-S02-S-M(S = S; R31, R41 = aliphatic hydrocarbon, aryl, heterocyclic ring; M = cationic ion). The imaging material shows good storageability and high sensitivity and provides images of low fogging, high quality, and good silver tone.

II 112056-11-8

RL: TEM (Technical or engineered material use); USES (Uses) (photog. dry imaging material)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 6 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:329149 CAPLUS

DN 140:357193

TI Purification of ethynyl group-containing phthalic anhydrides

IN Kimura, Keizo; Yamakawa, Kazuyoshi

PA Fuji Photo Film Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 22 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI JP 2004123573	A	20040422	JP 2002-287260	20020930	
PRAI JP 2002-287260		20020930			
OS MARPAT 140:357193					

GΙ

AB Title compds. I (R1 = substituent; n1 = 0-3; R2 = H, α-hydroxyalkyl, SiR3R4R5; R3-R5 = alkyl, aryl), useful as intermediates for thermosetting resins, liquid crystals, nonlinear optical materials, and photog. additives, are purified by crystallization from mixts. of ≥2 solvents.

3-Ethynylphthalic acid was dehydrated by activated C in o-xylene under reflux and crystallized from AcOEt-n-hexane to give 85% I (R2 = H, n1 = 0) with ≥99.9% purity.

IT 87639-57-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(purification of ethynyl group-containing phthalic anhydrides by

crystallization)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 7 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:219208 CAPLUS

DN 140:261335

TI Silver salt-type photothermographic dry imaging materials and image formation using them

IN Kimura, Sok Man Ho

PA Konica Minolta Holdings Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 55 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

1141.011 1								
FENT NO.	KIND	DATE	APPLICATION NO.	DATE				
2004085774	Α	20040318	JP 2002-245014	20020826				
2002-245014		20020826						
	TENT NO. 2004085774	TENT NO. KIND 2004085774 A	TENT NO. KIND DATE 2004085774 A 20040318	TENT NO. KIND DATE APPLICATION NO. 2004085774 A 20040318 JP 2002-245014				

OS MARPAT 140:261335

In the materials comprising (A) photosensitive emulsions containing nonphotosensitive aliphatic carboxylic acid Ag salt particles and photosensitive Ag halide particles, (B) reducing agents for Ag ions, (C) binders, and (D) crosslinking agents, the materials contain [AOC(:0)]mZ1S(:0)2SM1 [Z1 = atom, aliphatic group, aryl, and/or heterocyclic group; A = H, SH, CH2SH, NH2, alkyl, (un)substituted aryl; M1 = H, metal atom, quaternary ammonium salt, phosphonium; m = 1-20] or R(CO2M)n [R = atom, aliphatic group, aromatic group, and/or heterocyclic group; M = H, metal atom, quaternary ammonium salt, phosphonium, alkyl, (un)substituted aryl; n = 2-20]. Images are formed by exposing the materials to 600-900-nm red or IR laser light and thermally developing. The materials show high sensitivity, low fog, and good storage stability.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(silver salt-type photothermog. dry imaging materials for low-fog image formation)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5

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AN 2003:1000504 CAPLUS
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DN 141:242819

TI Product class 4: organometallic complexes of copper

AU Heaney, H.; Christie, S.

CS Dept. of Chemistry, University of Loughborough, Loughborough, LE11 3TU, UK

SO Science of Synthesis (2004), 3, 305-662 CODEN: SSCYJ9

PB Georg Thieme Verlag

DT Journal; General Review

LA English

AB A review. The use of copper and related complexes in applications to organic synthesis is reviewed.

IT 87639-57-4, Dimethyl 4-bromophthalate

RL: RCT (Reactant); RACT (Reactant or reagent)

(applications of copper and organocopper complexes to organic synthesis)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 1706 THERE ARE 1706 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:284655 CAPLUS

DN 139:21959

TI Palladium-Catalyzed Tetrakis(dimethylamino)ethylene-Promoted Reductive Coupling of Aryl Halides

AU Kuroboshi, Manabu; Waki, Yoko; Tanaka, Hideo

CS Department of Applied Chemistry, Faculty of Engineering, Okayama University, Okayama, 700-8530, Japan

SO Journal of Organic Chemistry (2003), 68(10), 3938-3942 CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 139:21959

Tetrakis(dimethylamino)ethylene /PdCl2(PhCN)2-promoted reductive coupling AB of aryl bromides RBr (R = Ph, 4-MeOC6H4, 4-O2NC6H4, 4-Me2NC6H4, etc.) having either electron-donating or electron-withdrawing groups on their para- and/or meta-position or heteroaryl bromides, e.g. 2-bromopyridine, 4-bromopyridine, proceeded smoothly to afford the corresponding biaryls RR in good to excellent yields (75-98%). Notably, the easily reducible groups, such as carbonyl and nitro groups, are tolerated. A similar reductive coupling of ortho-substituted aryl bromides was unsuccessful. The proper choice of palladium catalysts is essential; thus, PdCl2(PhCN)2, PdC12(MeCN)2, Pd2(dba)3, PdC12, and Pd(OAc)2 were used successfully for this reaction, but phosphine-ligated palladium catalysts, such as Pd(PPh3)4 or PdCl2(PPh3)2, did not promote the reaction. The reductive coupling also did not occur with nickel catalysts such as NiBr2, NiCl2(bpy), and Ni(acac)2. The reductive coupling of aryl halides having electron-withdrawing groups occurred more efficiently than that of aryl halides substituted with electron-donating groups.

IT 87639-57-4

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of sym. biaryls via Pd-catalyzed tetrakis(dimethylamino)ethylen
e- promoted reductive coupling of aryl and heteroaryl halides)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:348564 CAPLUS

DN 137:140317

TI Study on the bromination of deactivated aromatics

AU Chen, Hong-Biao; Lin, Yuan-Bin; Liu, Zheng-Chun; Liu, Zhan-Peng

CS College of Chemistry, Xiangtan University, Xiangtan, 411105, Peop. Rep. China

SO Youji Huaxue (2002), 22(5), 371-374 CODEN: YCHHDX; ISSN: 0253-2786

PB Kexue Chubanshe

DT Journal

LA Chinese

OS CASREACT 137:140317

AB Bromination of deactivated aroms. has been studied in detail. Some deactivated aroms. such as trifluoromethylbenzene could be brominated with good results by using KBrO3-H2SO4 as brominating reagent. The effects of reaction conditions, such as concentration and quantity of sulfuric acid, reaction temperature and different deactivated groups are investigated.

IT 87639-57-4P, Dimethyl 4-bromophthalate RL: SPN (Synthetic preparation); PREP (Preparation) (bromination of deactivated aroms.)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 11 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN AN 2002:295916 CAPLUS

DN 137:154713

TI Tetrakis(dimethylamino)ethylene (TDAE)-Pd promoted reductive homo-coupling of aryl halides

AU Kuroboshi, Manabu; Waki, Yoko; Tanaka, Hideo

CS Department of Applied Chemistry, Faculty of Engineering, Okayama University, Okayama, 700-8530, Japan

SO Synlett (2002), (4), 637-639 CODEN: SYNLES; ISSN: 0936-5214

PB Georg Thieme Verlag

DT Journal

LA English

OS CASREACT 137:154713

AB A combination of tetrakis(dimethylamino)ethylene (TDAE) and Pd catalysts promoted reductive homo-coupling of aryl halides efficiently to afford the corresponding biaryls in good to quant. yields. TDAE acted as a very mild reductant, and easily reducible functional groups, such as a nitro, formyl, ester, or nitrile group, remained unchanged.

IT 87639-57-4, Dimethyl 4-bromophthalate

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of biaryls by tetrakis(dimethylamino)ethylene-palladium
promoted reductive homo-coupling of aryl halides)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

$$\begin{array}{c|c} & & & \\ & & & \\ & & & \\ MeO-C & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ \end{array}$$

RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 12 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:253289 CAPLUS

DN 136:301774

TI Photosensitive resin compositions containing polyimide precursors, patterning using them, and electronic devices

IN Takusari, Hisanori

PA Hitachi Chemical Du Pont Micro System Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 16 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PΙ	JP 2002099083	Α	20020405	JP 2000-287867	20000922		
PRAI	JP 2000-287867	-	20000922		•		
GI							

AB The compns. containing polyimide precursors having a repeating unit I (A = organic linking group; R1, R2 = OH, monovalent organic group; R3, R4 = H, C1-10 alkyl; n = 5-20) are used for formation of a patterned film such as a surface protective film or an interlayer insulating film in fabrication of electronic devices. The resin compns. have good transparency to i-ray and high resolution

I

IT 87639-57-4, Dimethyl 4-bromophthalate

RL: RCT (Reactant); RACT (Reactant or reagent)
 (photosensitive resin compns. containing polyimide precursors for
 electronic devices)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 13 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2002:169592 CAPLUS

DN 136:217178

TI Preparation of acetylene group-containing aromatic tetracarboxylic acid dianhydrides and their derivatives

IN Tagusari, Hisanori

PA Hitachi Chemical Du Pont Micro System Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

FAN.	CNT 1 PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	JP 2002069065	Α	20020308	JP 2000-254057	20000824		
PRAI	JP 2000-254057		20000824		7		
os	MARPAT 136:217178						
GI							

$$C \equiv C - A - C \equiv C$$

Compds. I (R1 = C1-10 alkyl; A = divalent organic group; n = 0-3) useful as AΒ curing agents for epoxy resins and for preparation of polyimides are prepared Thus, di-Me 4-bromophthalate and 1,9-decadiyne were reacted to give 1,10-di[3,4-di(methoxycarbonyl)phenyl]-1,9-decadiyne, which was hydrolyzed and heated in the presence of Ac2O to give 1,10-bis(3,4-dicarboxyphenyl)-1,9-decadiyne dianhydride.

87639-57-4, Dimethyl 4-bromophthalate IT RL: RCT (Reactant); RACT (Reactant or reagent) (preparation of acetylene group-containing aromatic tetracarboxylic acid dianhydrides and their derivs.)

RN87639-57-4 CAPLUS

1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX CN NAME)

L5 ANSWER 14 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

2002:157732 CAPLUS ΑN

DN 136:216540

Preparation of novel thiocarbamic acid derivatives as vanilloid receptor TI antagonists

IN Suh, Young Ger; Oh, Uh Taek; Kim, Hee Doo; Lee, Jee Woo; Park, Hyeung Geun; Park, Young Ho; Yi, Jung Bum

Pacific Corporation, S. Korea PA

SO PCT Int. Appl., 102 pp. CODEN: PIXXD2

DTPatent

English LΑ

FAN.	CNT	1															•	
	·PAT	CENT :	NO.			KINI)	DATE			APPL	ICAT:	ION I	NO.		D	ATE	
																,		
ΡI	WO	2002	0163	17		A1		2002	0228	1	WO 2	001-	KR14	09		2	0010	820
•		W:	ΑE,	AG,	AL,	AM,	AT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
٠			CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
			GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP;	KR,	ΚZ,	LC,	LK,	LR,
		•	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PH,	PL,
	•		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UΑ,	UG,
			US,	UΖ,	VN,	YU,	ZA,	zw										
		RW:	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
•			DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	TR,	BF,
		-	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG	
	ΑU	2001	0788	21		A5		2002	0304		AU 2	001-	7882	1 .		20	0010	820

	KR	2002	0300:	10		Α	2	2002	0422]	KR 2	2001	-50	094	Ł		2	0010	820
	ΕP	P 1311477			A1	A1 20030521			EP 2001-957037						20010820				
		R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR	, IT	', I	Ί,	LU,	NL,	SE,	MC,	PT,
		•	ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL	, TR							
	US	2003	20394	44		A1	2	2003	1030	Ţ	US :	2003	-34	1370)3		2	0030	203
	US	2006	26448	80		A1	2	2006	1123	τ	US :	2006	37	7382	28		2	0060	313
PRAI	KR	2000	-4838	87		A	2	2000	0821										
	WO	2001	-KR14	409		W	2	2001	0820										
	US.	2003	-343′	703		B1	2	2003	0203										
os	MAF	RPAT	136:2	21654	40														
GT																			

Ι

The title compds. ArACH2CHR2ZC(:Y)NHR1 [R1 = (CH2)mAr1 (Ar1 = AB (un) substituted Ph, pyridyl, thiophenyl, naphthyl; m = 1-4), (CH2) nCHPh2, (CH2) 2CHPhCH2Ph (n = 1-2); Y = S, O; Z = O, CH2, NR3, CHR3 (R3 = H, alkyl, CHR3)CH2Ph, (CH2)2Ph); R2 = H, alkyl, cycloalkyl, etc.; A = O, CH2; Ar = (un) substituted Ph, pyridyl, indolyl, imidazolyl], useful as antagonists against vanilloid receptor, were prepared E.g., a multi-step synthesis of I which showed antagonistic potency equal to capsazepine in patchclamp test for vanilloid receptor activity, was given. As diseases associated with the activity of vanilloid receptor, pain, acute pain, chronic pain, neuropathic pain, post-operative pain, migraine, arthralgia, neuropathies, nerve injury, diabetic neuropathy, neurodegeneration, neurotic skin disorder, stroke, urinary bladder hypersensitiveness, irritable bowel syndrome, a respiratory disorder such as asthma or chronic obstructive pulmonary disease, irritation of skin, eye or mucous membrane, fevescence, stomach-duodenal ulcer, inflammatory bowel disease and inflammatory diseases can be enumerated. The present invention provides a pharmaceutical composition for prevention or treatment of these diseases. IT 87639-57-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of novel thiocarbamic acid derivs. as vanilloid receptor antagonists)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 15 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:855841 CAPLUS

DN 136:6928

TI Low-temperature curable resin compositions containing polyimide precursors

IN Takusari, Kazunori

PA Hitachi Chemical Du Pont Micro System Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND .	DATE	APPLICATION NO.	DATE
PI JP 2001329170	A	20011127	JP 2000-148841	20000519
PRAI JP 2000-148841		20000519		
GI				

AB The composition composition comprises a polyimide precursor with repeating unit I (A

= divalent organic group; R = H, C1-6 alkyl; R1, R2 = H, C1-10 alkyl; n =

5-20), which can be imidized at low temperature Thus, 0.60 parts

1,4-phenylenediamine was mixed with 2.40 parts 1,10-bis[3,4-

di(carboxy)phenyl]decane dianhydride at room temperature for 24 h to give a polyimide precursor with weight average mol. weight 65,000, which was coated

on a glass plate, dried at 100° for 1 min, and cured at 275° for

30 min, showing imidization rate 100%.

IT 87639-57-4P, Dimethyl 4-Bromophthalate

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(preparation of polyimide precursors for low-temperature curable resin compns.)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 16 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2001:345429 CAPLUS

DN 134:359575

TI Composition of polyamic acid or polyimide for liquid crystal alignment film, the alignment film, substrate sandwiching liquid crystal, and display device

IN Takusari, Hisanori; Okuda, Naoki

PA Hitachi Chemical Du Pont Micro System Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI JP 2001131285 PRAI JP 1999-309023	A	20010515 19991029	JP 1999-309023	19991029		

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The polyamic acid is that having repeating unit I (A = divalent organic group; R1, R2 = H, c1-10 alkyl; n = 5-20) and the polyimide is that having repeating unit II (definitions of A, R1, R2, and n are the same in I), each of which is contained in the claimed composition for forming the claimed liquid crystal alignment film. The substrate sandwiching a liquid crystal using the alignment film and the liquid crystal display device made of the substrate are also claimed. Adsorption of ionic impurities from the liquid crystal on the alignment film is avoided so that clear images are displayed in the device.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate for monomer; composition of polyamic acid or polyimide for liquid crystal alignment film for display device from)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 17 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:865368 CAPLUS

DN 134:42564

TI Alkylene-containing aromatic tetracarboxylic dianhydrides, their derivatives, and their manufacture

IN Tagusari, Hisanori; Arai, Noriyoshi; Okuda, Naoki

PA Hitachi Chemical Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 11 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND ·	DATE	APPLICATION NO.	DATE	
ΡI	JP 2000344759	Α	20001212	JP 1999-158113	19990604	
PRAI	JP 1999-158113		19990604	•	•	

OS MARPAT 134:42564

Alkylene-containing aromatic tetracarboxylic dianhydrides and their derivs., which are useful in producing polyimides and curing agents for epoxy resins, are synthesized. Thus 1,10-bis[3,4-di(carboxy)phenyl]decane dianhydride was prepared by (1) reacting 4-bromophthalic anhydride with methanol to obtain di-Me 4-bromophthalate, (2) reacting the bromophthalate with 1,9-decadiyne to give 1,10-bis[3,4-di(methoxycarbonyl)phenyl]-1,9-decadiyne, (3) hydrolyzing the di-Me ester to give the corresponding free tetracarboxylic acid, (4) obtaining 1,10-bis[3,4-di(methoxycarbonyl)phenyl]decane by hydrogenation of the free acid over Pd/charcoal, and (5) dehydrating.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(alkylene-containing aromatic tetracarboxylic dianhydrides, their derivs.,

and

their manufacture)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

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ANSWER 18 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
AN
     2000:767985 CAPLUS
DN
     133:342398
TI
     Silver halide photographic material and processing thereof
     Ono, Koji
IN
PA
     Konica Co., Japan
     Jpn. Kokai Tokkyo Koho, 55 pp.
SO
     CODEN: JKXXAF
DT
     Patent
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Japanese LA FAN.CNT 1

L5

DATE PATENT NO. KIND DATE APPLICATION NO. ______ JP 1999-109150 20001102 19990416 JP 2000305210 Δ PΙ PRAI JP 1999-109150 19990416 MARPAT 133:342398 -OS GI

The title photog. material possesses a Ag halide emulsion layer containing Ag AB halide grains which are formed by carrying out grain growth while a solution containing salts is being removed occasionally from the reaction product solution

by ultrafiltration in the grain growth process or chemical sensitized with a compound R11R12Au(I)SR13 [R11, R13 = (substituted) aliphatic hydrocarbon, aromatic

hydrocarbon, heterocyclic group, R11 and R13 are the same or different; R13 = S02S, Sk; k = 2-6] and contains a compound I (Z = atoms required to form a 5- or 6-membered heterocycle which may be substituted and condensed with benzene ring; R1, R2 = H, alkyl, aryl, aralkyl, R1 and R2 may link each other to form a N-containing heterocycle) in ≥1 of the constitutive layers. The material may contain the compound I and a compound II [Y = CO, CS, CSe, CH2, (CH2)2; R3, R4 = aliphatic, aromatic or heterocyclic group, atoms required to form a 5- or 6-membered ring or polycyclic system in combination of R3 and R4], AlmYOA2nA3r, or AlmY1A2nA3r-121pY2A1'm1A2'n1A3'r1-1 [A1, A1' = SO3M, CO2M, OM (M = H, metal atom, quaternary ammonium, phosphonium); m, m1, n, n1 = 1-10; A2, A2' = electron-attracting group; A3, A3' = functional group containing S, Se or Te atom capable of binding to Ag+; r, r1 = 1 or 2; Y0, Y1, Y2 = aliphatic aromatic or heterocyclic group; Z1 = S, Se, Te; p = 1 or 2]. The material is processed with a developing solution containing reductones and 1 selected from I-, sugars, a polyalkylene oxide compound, and a compound III [Y3, Z2 = N, CR6 {R6 = H, (substituted) alkyl, (substituted) aryl}; R5 = alkyl substituted by ≥1 sulfo, CO2H, NH2, OH or its salt or boron residue (when the group has plural substituents, they are the same or different); M0 = H, alkali metal, quaternary ammonium, group capable of becoming H or an alkali metal under alkaline conditions]. The material especially useful in medical

use shows high sensitivity, good Ag tone, and low residual color stain in rapid processing using a low replenishment rate and improved storage stability.

112056-11-8 IT

RL: DEV (Device component use); MOA (Modifier or additive use); USES

(photog. film suited for medical use)

RN 112056-11-8 CAPLUS CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 19 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:767984 CAPLUS

DN 133:342397

TI Silver halide photographic material and processing thereof

IN Ono, Koji

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 57 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI JP 2000305209 PRAI JP 1999-110797	A	20001102 19990419	JP 1999-110797	19990419		
OS MARPAT 133:342397						
GI ·						

$$C=R^3$$
 R^2
 SO_2
 I
 $(R^5)_n$
 II
 $C=R^3$
 III

$$Y^3-N$$
 Z^1-N
 R^6
 IV

AB The title photog. material, possessing Ag halide emulsion layers and non-photosensitive layers on a support, contains Ag halide grains which are formed by carrying out grain growth while a solution containing salts is being removed occasionally from the reaction product solution by ultrafiltration in the grain growth process or chemical sensitized with a compound R11R12Au(I)SR13 [R11, R13 = (substituted) aliphatic hydrocarbon, aromatic

hydrocarbon, heterocyclic group, R11 and R13 are the same or different; R12 = SO2S, Sm; m = 2-6] in ≥ 1 of the emulsion layers and a compound I [Y = CO, CS, CSe, CH2, (CH2)2; R1, R2 = aliphatic, aromatic or heterocyclic group, atoms required to form a 5- or 6-membered ring or polycyclic system in combination of R1 and R2] in ≥ 1 of the constitutive layers. The

material may contain, in ≥1 of the constitutive layers, the compound I and a compound II (R3 = O, NOH, NH; when R3 = O, R4 = NHOH or NH2, when R3 = NOH or NH, R4 = H, OH, C \leq 2 alkyl, C \leq 2 hydroxyalkyl, C≤2 alkoxy; R5 = H, halo, acyl, amino, acylamino, NO2, CN, $C \le 4$ alkyl, alkoxy, OH, CO2H or its salt, sulfo or its salt; n = 0-2), III [X = atoms required to form a heterocycle which has ≥ 1 group selected from SO3M, CO2M, and OM (M = H, metal atom, quaternary ammonium, phosphonium) directly or indirectly along with the CS group, the heterocycle has no partial structure NHCSNR (R = H, univalent substituent)], AlmYA2nA3r, or AlmY1A2nA3r-1ZpY2A1'm'A2'n'A3'r'-1 [A1, A1' = SO3M, CO2M, OM (M = H, metal atom, quaternary ammonium, phosphonium); m, m', n, n' = 1-10; A2, A2' = electron-attracting group; A3, A3' = functional group containing S, Se or Te atom capable of binding to Ag+; r, r' = 1 or 2; Y, Y1, Y2 = aliphatic aromatic or heterocyclic group; Z = S, Se, Te;

= 1 or 2]. The material is processed with a developing solution containing reductones and 1 selected from I-, sugars, a polyalkylene oxide compound, and a compound IV [Y3, Z1 = N, CR7 {R7 = H, (substituted) alkyl, (substituted) aryl}; R6 = alkyl substituted by ≥1 sulfo, CO2H, amino, OH or its salt or boron residue (when the group has plural substituents, they are the same or different); M1 = H, alkali metal, quaternary ammonium, group capable of becoming H or an alkali metal under alkaline conditions]. The material especially useful in medical use shows high sensitivity, good Ag tone, and low residual color stain in rapid processing using a low replenishment rate and improved storage stability.

112056-11-8 IT

p

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(photog. film suited for rapid processing)

112056-11-8 CAPLUS RN

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX CN NAME)

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ANSWER 20 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
L5
     2000:418029 CAPLUS
AN
     133:51305
DN
     Silver halide photographic emulsion, photographic material, and x-ray
TI ·
     radiography
     Kimura, Sok Man Ho
IN
     Konica Co., Japan
PΑ
     Jpn. Kokai Tokkyo Koho, 42 pp.
so
     CODEN: JKXXAF
DT
     Patent
     Japanese
LA
FAN.CNT 1
                         KIND
                                 DATE
                                             APPLICATION NO.
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     PATENT NO.
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                                             JP 1998-350109
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                                 20000623
PT
     JP 2000171932
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19981209 PRAI JP 1998-350109 MARPAT 133:51305

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 $(X^{21})n-1$

The emulsion contains reduction-sensitized grains, R1R2AuIR3R4 [R2, R3 = SO2S, AB Sm, Sem, Tem; m = 1-6; R1, R4 = (un) substituted aliphatic hydrocarbon residue, aromatic hydrocarbon residue, heterocycle] optionally associated with ≥1 selected from I [R21, R23 = (un) substituted lower alkyl or alkenyl; R22, R24 = alkyl; Z21, Z22, Z23, Z24 = H, substituent; X21 = ions required to neutralize intramol. charge; n = 1, 2, II (X31 = atoms to form a heterocyclic ring directly or indirectly containing SO3M31, COOM31, or OM31; M31 = H, metal, quaternary ammonium, phosphonium), YA1mA2nA3r (III; A1 = SO3M1, COOM1, OM1; M1 = H, metal, quaternary ammonium, phosphonium; m = 1-10; A2 = electron-withdrawing group; n = 1-10; A3 = functional group making link with Ag ion, containing Se, Se, or Te; r = 1, 2; Y = aliphatic hydrocarbon residue, aromatic hydrocarbon, heterocycle), and A1mA2mA3r-1Y1ZpY2A1'm'A2'n'A3'r-1 [A1, A2, A3, m, n, r = the same as those in III; A1' = SO3M1, COOM1, OM1; M1 = the same as those in III; A2' = electron attractive group; A3' = functional group to be linked to Ag ion, containing S, Se, or Te; Y1, Y2 = aliphatic hydrocarbon residue, aromatic hydrocarbon, heterocyclic ring; Z = S, Se, Te; p = 1, 2; m + m', n + n' 1-20]. The material containing the obtained emulsion is also claimed. The material is exposed to x-ray radiation and contacted with intensifying screen with 68-90% fluorescent substance packing. The material shows low fog, high sensitivity, small dye stain, and improved storage stability in low replenishment and rapid processing.

Ι

IT 112056-11-8

RL: MOA (Modifier or additive use); USES (Uses)

(in silver halide radiog. emulsion containing gold compound sensitizer)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 21 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:398993 CAPLUS

DN 133:51107

TI Silver halide photographic emulsion and preparation thereof

IN Taguchi, Masaaki

Konica Co., Japan; Konica Minolta Holdings, Inc. Jpn. Kokai Tokkyo Koho, 25 pp. PA

SO

CODEN: JKXXAF

Patent DT LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
ΡI	JP 2000162728	Α	20000616	JP 1998-334192	19981125		
	JP 3687371	B2 ·	20050824	•			
PRAI	JP 1998-334192		19981125	•			

The title photog. emulsion contains Ag halide grains in which the average intergrain distance in Ag halide grain growth process, defined by the equation average intergrain distance = (volume of reaction solution/number of

grains in reaction solution)1/3, is arbitrarily controlled throughout from the beginning to the completion of grain growth and to which photog. useful substances are added upon growing 0.6-1.15 times the average intergrain distance upon the beginning of grain growth or in the step from the completion of grain growth to the beginning of chemical ripening. A method of preparing the emulsion is also claimed, in which the average intergrain distance is controlled by a disperse medium-introducing, water-introducing or aqueous solution-discharging means. The emulsion shows high sensitivity, sharpness, and covering power in rapid processing, low residual color stain, and little uneven d.

112056-11-8 IT

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion containing intergrain distance-controlled silver halide grain)

RN 112056-11-8 CAPLUS

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX CN NAME)

ANSWER 22 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L_5

AN 2000:291065 CAPLUS

DN 132:308547

Method for the production and use of bile acid substituted phenyl alkenoyl TI quanidines as medicaments or diagnostic agents and of medicaments that contain them

Weichert, Andreas; Enhsen, Alfons; Falk, Eugen; Jansen, Hans-Willi; IN. Kramer, Werner; Schwark, Jan-Robert; Lang, Hans Jochen

Aventis Pharma Deutschland G.m.b.H., Germany PA

PCT Int. Appl., 46 pp. SO

CODEN: PIXXD2

DT v Patent

LA German

FAN.CNT 1

	PATENT	NO.			KIN	D .	DATE			APPL	ICAT	ION I	NO.		D	ATE	
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PI	WO 2000	0247	61		` A1		2000	0504	1	WO 1	999-	EP78:	28		19	9991	015
	W:	ΑE,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,
		CZ,	DE,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,

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IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
              MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     DE 19849722
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                                                DE 1998-19849722
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     CA 2349523
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                                                CA 1999-2349523
                            A1
                                                                          19991015
     AU 9962032
                                                AU 1999-62032
                            Α
                                   20000515
                                                                          19991015
     AU 757365
                            B2
                                   20030220
     BR 9914929
                            Α
                                   20010710
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     TR 200101163
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                                   20010821
                                                TR 2001-200101163
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     EP 1124841
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     EP 1124841
                            B1
                                   20030402
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
         R:
              IE, SI, LT, LV, FI, RO
     HU 200103751
                            A2
                                   20020429
                                                HU 2001-3751
                                                                          19991015
                                                JP 2000-578331
                            Т
     JP 2002528460
                                   20020903
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                                                AT 1999-949001
     AT 236191
                                   20030415
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                                                PT 1999-949001
     PT 1124841
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                            Т3
                                                ES 1999-949001
     ES 2191466
                                   20030901
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                            C2
                                                RU 2001-114207
                                                                          19991015
     RU 2232769
                                   20040720
     US 6166002
                            Α
                                   20001226
                                                US 1999-422146
                                                                          19991020
                            Α
     ZA 2001003106
                                   20020604
                                                ZA 2001-3106
                                                                          20010417
                            Α
     IN 2001CN00570
                                                IN 2001-CN570
                                                                          20010424
                                   20050304
PRAI DE 1998-19849722
                            Α
                                  19981028
                            W
     WO 1999-EP7828
                                   19991015
     CASREACT 132:308547; MARPAT 132:308547
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to substituted Ph alkenoyl guanidines I [T1, T2 = $(CRARB) \times CRF : CRE(CRCRD) YCON : C(NH2) 2$, H; z = Z1; RA, RB, RC, RD = H, F, C1, Br, I, CN, OH, NH2, C1-8-alkyl, O-C1-8-alkyl, O-C1-8-fluoroalkyl; C3-8-cycloalkyl, Ph, CH2Ph, NHR7, NR7R8, O-C3-6-alkenyl, O-C3-8-cycloalkyl, OPh, OCH2Ph; R7, R8 = H, C1-8-alkyl, C1-8-fluoroalkyl, C3-8-cycloalkyl, Ph, CH2Ph; R7R8 = (CH2)4, (CH2)5 or one CH2 is replaced with O, S, NH, NMe, NCH2Ph; R9, R10 = H, C1-4-alkyl, C1-4-perfluoroalkyl; x, y = 0 - 2; RE, RF = H, F, Cl, Br, I, CN, Cl-8-alkyl, O-Cl-8-alkyl, O-C1-8-fluoroalkyl, C3-8-cycloalkyl, O-C3-6-alkenyl, O-C3-8-cycloalkyl, OPh, OCH2Ph; R1, R2, R3 = H, F, Cl, Br, I, CN, C1-8-alkyl, O-C1-8-alkyl, O-C1-8-fluoroalkyl, CON:C(NH2)2, S-C1-8-alkyl, SO-C1-8-alkyl, SO2-C1-8-alkyl, SO2NR7R8, O-C0-8-alkylenephenyl, L = O, NR47, C1-8-alkylene, C2-8-alkenylene, C2-8-alkynylene, CO2, CONR47, SO2NR47, O(CH2)nO, N(R47)(CH2)nO, NR48CO(CH2)nO, CON(R48)(CH2)nO, OC(:0)(CH2)nO, SO2NR48(CH2)2O, (CH2)nO, NR48SO2(CH2)nO, etc.; one of R40 - R45 = bond to guanidine link; R47 = H, C1-8-alkyl, R48CO, Ph, CH2Ph; R48 = H, C1-8-alkyl, Ph, CH2Ph; n = 1 - 8; K = OR50, NHR50, N(R50)2, NHCH2CH2CO2H,NHCH2CH2SO3H, NHCH2CO2H, NMeCH2CO2H, NHCHR46CO2H, etc.] and pharmaceutically acceptable salts. Thus, II was prepared via coupling of cholic acid derivative III with bromobenzene derivative IV. Compds. I are, for instance, suitable for use as medicaments for the prophylaxis or treatment of gall stones; II was tested for inhibition of sodium/proton exchange (subtype 3; IC50 = 1.7 μ M/L). IT 87639-57-4, 4-Bromophthalic acid dimethyl ester

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 23 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:166114 CAPLUS

DN 132:229558

TI Heat development photographic material using chemically sensitized silver halide and image formation

IN Kimura, Sok Man Ho.

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 40 pp. CODEN: JKXXAF

DT Patent

LA Japanese

DAN CHE 1

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000075438 .	A	20000314	JP 1998-243399	19980828
PRAI JP 1998-243399		19980828		

AB The title photog. material possesses, on a support, a photosensitive layer containing organic Ag salts, binders, and photosensitive Ag halides which have been subjected to ≥1 chemical sensitization selected from S-, Se-, and Te-sensitization in the presence of ≥1 compound R21SmR22 (R21, R22 = aliphatic, aromatic or heterocyclic group, R21 and R22 may link each other to form a ring along with Sm; m = 2-6). To the material may be added a compound AlqYA2nA3r [Al = SO3M, CO2M, OM (M = H, metal atom, quaternary ammonium, phosphonium); A2 = electron-attracting group; A3 = S-, Se- or Te-containing functional group capable of binding to Ag+; Y = aliphatic,

aromatic or

heterocyclic group; q, n = 1-10; r = 1 or 2] after \geq 1 chemical sensitization selected from S-, Se- and Te-sensitization. An imaging method is also claimed, in which the material is exposed by using lasers. The material shows high sensitivity and storage stability and provides high contrast and low fog images with improved storage stability.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(heat-developable photog. film using silver halide chemical sensitized in presence of sulfur compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 24 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:129601 CAPLUS

DN 132:187575

TI Silver halide photographic material useful as medical x-ray film

IN Kimura, Sok Man Ho

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 43 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

T. LTIA.	CIVI						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	JP 2000056420	A	20000225	JP 1998-223038	19980806		
	JP 3780711	B2	20060531				
PRAI	JP 1998-223038		19980806				
os	MARPAT 132:187575				•		
GI							

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AB In the title photog. material possessing Ag halide emulsion layers on a support, the Ag halide grains, contained in ≥1 of the emulsion layers, are prepared in such a manner that the grain growth is carried out while the salt-containing aqueous solution is being removed from the reactant solution

II

properly by ultrafiltration and chemical-sensitized with ≥ 1 compound R11R12AuR13R14 [I; R11, R14 = (substituted) aliphatic hydrocarbon, aromatic hydrocarbon, heterocycle; R12, R13 = S02S, Sm, Sem, Tem; m = 1-6]. The material may contain the Ag halide grains prepared by the above method in ≥ 1 of the emulsion layers and ≥ 1 compound II [R1, R3 = (substituted) lower alkyl, alkenyl; R2, R4 = alkyl, ≥ 1 of R2 and R4 is a hydrophilic group-substituted alkyl; Z1-4 = H, substituent; X1 = ion required to neutralize the charge in the mol.; n = 1 or 2, when an inner salt is formed, n = 1] in ≥ 1 layer of the material. The above chemical sensitization using ≥ 1 compound I may be carried out in the presence of ≥ 1 compound II. The material may contain, in ≥ 1

of the emulsion layers, the Ag halide grains which are prepared by the above method and contain ≥1 compound III [X = atoms having ≥1 selected from SO3M, CO2M, and OM directly or indirectly and being capable of forming a heterocycle; M = H, metal atom, quaternary ammonium, phosphonium, this compound has no partial structure NHC(:S)NR (R = H or substituent)], AlmYA2nA3r or AlmY1A2nA3r- 1ZpY2A1'm'A2'n'A3'r-1 [A1, A1' = SO3M1, CO2M1, OM1 (M1 = H, metal atom, quaternary ammonium, phosphonium); A2, A2' = electron-attracting group; A3, A3' = S-, Se- or Te-containing functional group capable of bonding to Ag+; Y, Y1, Y2 = aliphatic or aromatic hydrocarbon, heterocycle; Z = S, Se, Te; m, n, m', n' = 1-10 (m + m' and n + n' in the later compound are ≥ 1); r, p = 1 or 2]. The material shows low fog, high sensitivity, decreased residual color stain, and improved storage stability.

IT 112056-11-8

> RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses) (photog. emulsion containing fog inhibitor)

RN112056-11-8 CAPLUS

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX CN

ANSWER 25 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L5

ΑN 2000:115232 CAPLUS

132:173319 DN

Silver halide photographic emulsion ΤI

Natsume, Chizuko; Kondo, Akiya IN

PA Konica Co., Japan

Jpn. Kokai Tokkyo Koho, 49 pp. so

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2000047344	· A	20000218	JP 1998-223767	19980724
PRAI	JP 1998-223767		19980724		
os	MARPAT 132:173319				
GT					

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 R^{41}

The title Ag halide emulsion contains Ag halide grains to which Ag nuclei AB are imparted and the both of intrinsic sensitivities of the inside and surface of the Ag halide grains are increased ≥25% than those of

the Ag halide grains to which Ag nuclei are not imparted. The emulsion may be added a compound [NR11R12C(:S)S-]m1(Man1+)m1/n1 (R11, R12 = H, aliphatic, aromatic or heterocyclic group, R11 and R12 may be atoms which link to form a 5- or 6-membered ring along with the N atom; Ma = cation; m1, n1 = 1-3), R21X21X22X23n2R22 (R21, R22 = aliphatic, aromatic or heterocyclic

group having these groups; R21 and R22 may be atoms which link to form a ring; X21-23 = S, Se, Te; n2 = 1-4), I (R31-35 = H, substituent, ≥ 1 of R31-35 is an acidic group; M = H, cation) or II (R41 = aliphatic, aromatic

or heterocyclic group; R42-44 = H, halo, aliphatic, aromatic or heterocyclic group,

R41-44 may be atoms which link to form a ring in combination of R41 and R42 or R43 and R44; Z1 = 0, S, Se, Te; X4 = counter ion; m2 = number required to control the charge of the mol.) and reduction-sensitized. The emulsion shows high sensitivity, low fog, and improved latent image stability and storage stability.

IT 112056-11-8
 RL: MOA (Modifier or additive use); TEM (Technical or engineered material
 use); USES (Uses)

(reduction sensitized photog. emulsion containing sulfur compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

group,

L5 ANSWER 26 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:48951 CAPLUS

DN 132:115146

TI X-ray image forming method and processing of silver halide photographic material

IN Marui, Toshiyuki

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 23 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 2000019666 A 20000121 JP 1998-199714 19980630

PRAI JP 1998-199714 19980630

OS MARPAT 132:115146

AB A Ag halide photog. material of which ≥1 emulsion layer containing tabular grains satisfying the following conditions is imagewise exposed by x-ray in contact with a radiog. intensifying screen having emission peak at 300-500 nm, developed, and then fixed. The conditions are; (1) having a spectral sensitivity peak at 300-500 nm; (2) with (111) principal plane, 1.0-4.0 μm circular diameter, and 0.2-0.6 μm thickness; (3) having a Ag halide protrusion with a face-centered cubic lattice structure, (4) the projection is positioned at the marginal area of the host tabular grain. The Ag halide grain may be chemical sensitized in the presence of a Se and/or a Te compound The hydrophilic colloid layer may contain a compd.RSMy (R = water soluble group-substituted aliphatic, aromatic, heterocyclic, or alicyclic

group; y = 1, 0; M = H, alkali metal, cation; when y = 0, R = S). The material shows high sensitivity and rapid processability, providing even images even being processed with less replenishment of a processing solution 112056-11-8

RL: TEM (Technical or engineered material use); USES (Uses) (hydrophilic colloid layer containing; X-ray image forming method and processing of silver halide photog. material)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

IT

L5 ANSWER 27 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2000:19490 CAPLUS

DN 132:85835

TI Method for processing silver halide photographic material

IN Mitsuhashi, Takeshi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 28 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

	APPLICATION NO.	DATE
PI JP 2000002975 A 20000107 PRAI JP 1998-183289 19980616	JP 1998-183289	19980616

OS MARPAT 132:85835

The method for processing a silver halide photog. material involves the photog. material having a light-sensitive silver halide emulsion layer containing silver halide grains of ≤2% AgI content and a hydrophilic layer containing compound R-S-M (R = aliphatics, aroms., heterocyclics substituted with water soluble group; M = H, alkali metal, alkali metal cation) or the thione of the R-S-M and a developing solution containing a reductone. The method provides the high sensitivity, the decreased development unevenness, and the superior silver tone.

IT 112056-11-8

RL: TEM (Technical or engineered material use); USES (Uses) (method for processing silver halide photog. material)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 28 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

ΑN 1999:813954. CAPLUS

DN 132:57050

Silver halide photographic emulsion, photographic material, photography TI and processing method

Hoo, Sokuman; Kagawa, Nobuaki IN

PA

Konica Co., Japan Jpn. Kokai Tokkyo Koho, 45 pp. SO

CODEN: JKXXAF

DTPatent

Japanese T.A

FAN CNT 1

GI

PAN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 11352622 JP 1998-157738 MARPAT 132:57050	A	19991224 19980605	JP _. 1998-157738	19980605

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$$V^{2}$$

$$V^{4}$$

The emulsion contains Aq halide particles, ≥1 spectral sensitizer I AB (R1-4 = aliphatic group, V1-4 = H, substituent; ≥1 of V1-4 = alkyl having sulfo group; ≥1 of V1-4 = aromatic group; M1 = counter ion; m1 = number to neutralize the charge of the mol.) and ≥1 selected from (MX)pArRfmYn, RfmYnArXxArRfm'Y'n', and X:ArRfmYn (Ar =aliphatic, aromatic, heterocyclic group; Rf = electron-withdrawing group; Y, Y' = SO3M, CO2M, OM, group having CO2M, OM, or SO3M; M = H, metal atom, quaternary ammonium, phosphonium,; m, m' = 1-9; n, n' = 1-6; m + n \leq 10; m' + $n' \le 10$; p = 0, 1; X = S, Se, Te; x = 1-2). Photog. film using the emulsion and x-ray photog. method using the film and a intensifying screen with fluorescent material filling rate 68-90% are also claimed. The material gives images with good storage stability and pressure resistance even when processed rapidly and with low replenishment. The material is developed and fixed while supplying solid processing agent to processing solns. in each step. The material shows good pressure resistance and gives images without color contamination even though processed rapidly and using less processing solns.

IT 112056-11-8

RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(radiog. emulsion containing benzimidazole derivative spectral sensitizer

Ι

and

fog inhibitor)

112056-11-8 CAPLUS RN

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) CN NAME)

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L5
     ANSWER 29 OF 79 CAPLUS
                               COPYRIGHT 2007 ACS on STN
AN
     1999:811214 CAPLUS
DN
     132:49890
TI
     Therapeutic biaryl derivatives useful as beta-3 adrenoceptor agonists
IN
     Donaldson, Kelly Horne; Shearer, Barry George; Uehling, David Edward
PA
     Glaxo Group Limited, UK
SO
     PCT Int. Appl., 69 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA
FAN.CNT 1
     PATENT NO.
                          KIND
                                 DATE
                                              APPLICATION NO.
                                                                      DATE
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                                              ______
                                                                      19990609
PΙ
     WO 9965877
                           A1
                                 19991223
                                              WO 1999-EP3958
             AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ,
             DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS,
             JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,
             MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
             TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK,
             ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG,
             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                              CA 1999-2334713
                                                                      19990609
     CA 2334713
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                                 19991223
     CA 2334713
                           C
                                 20060117
                                              AU 1999-45103
     AU 9945103
                           Α
                                 20000105
                                                                      19990609
     AU 753004
                           B2
                                 20021003
                                              BR 1999-11182.
     BR 9911182
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                                 20010313
                                                                      19990609
     EP 1087943
                                 20010404
                                              EP 1999-927923
                                                                      19990609
                           A1
     EP 1087943
                           В1
                                 20050817
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     TR 200100299
                           T2
                                 20010621
                                              TR 2001-200100299
                                                                      19990609
     HU 200102668
                           A2
                                 20011228
                                              HU 2001-2668
                                                                      19990609
     EE 200000744
                                 20020415
                                              EE 2000-744
                                                                      19990609
                           Α
     EE 4435
                                 20050215
                           В1
     JP 2002518374
                           Т
                                 20020625
                                              JP 2000-554704
                                                                      19990609
     JP 3471754
                                 20031202
                          ·B2
                                 20030829
                                              NZ 1999-508805
                                                                      19990609
     NZ 508805
                           Α
     AT 302189
                           Т
                                 20050915
                                              AT 1999-927923
                                                                      19990609
                           Т3
                                              ES 1999-927923
                                                                      19990609
     ES 2245107
                                 20051216
                           Α
     AP 1687
                                 20061231
                                              AP 2001-2028
                                                                      19990609
                                          SD, SZ, UG, ZW
         W:
             GM, GH, KE, LS, MW, MZ, SL,
                                 20051201
                                              TW 1999-88110054
                                                                      19990616
     TW 244471
                           В
     IN 2000KN00616
                                 20050311
                                              IN 2000-KN616
                                                                      20001211
                           Α
     NO 2000006319
                           А
                                 20010209
                                              NO 2000-6319
                                                                      20001212
     NO 318782
                                 20050509
                           B1
                                                                      20001212
     ZA 2000007417
                           Α
                                 20011212
                                              ZA 2000-7417
     US 6251925
                           B1
                                 20010626
                                              US 2000-719595
                                                                      20001213
                                              HR 2000-854
                                                                      20001213
     HR 2000000854
                           A1
                                 20011231
     HR 2000000854
                           B1
                                 20060531
     HK 1034253
                           A1
                                 20060120
                                              HK 2001-104848
                                                                      20010711
PRAI GB 1998-12709
                           Α
                                 19980613
     WO 1999-EP3958
                           W
                                 19990609
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$$R^{2}$$
 R^{3}
 R^{4}
 R^{5}
 R^{5}
 R^{1}
 R^{1}
 R^{2}
 R^{3}
 R^{4}
 R^{5}

The invention relates to therapeutic biaryl derivs. I and pharmaceutically AΒ acceptable derivs. thereof [wherein R1 = Ph, naphthyl, pyridyl, thiazolyl, phenoxymethyl, or pyrimidyl, optionally substituted by one or more substituents selected from halo, OH, C1-6 alkoxy, C1-6 alkyl, NO2, cyano, CH2OH, CF3, NR6R6, and NHSO2R6; R2 = H or C1-6 alkyl; R3 = cyano, tetrazol-5-yl, or CO2R7; R4, R5 = (independently) H, C1-6 alkyl, CO2H, CO2-C1-6-alkyl, cyano, tetrazol-5-yl, halo, CF3, or C1-6 alkoxy; or R4R5 may form a fused 5- or 6-membered ring optionally containing one or two N, O, or S atoms; R6 = (independently) H or C1-4 alkyl; R7 = H or C1-6 alkyl; X = 0, S, NH, or N-C1-4-alkyl; Y = N or CH]. The invention also relates to processes for preparation of I, and use of I in the treatment of diseases susceptible to amelioration by treatment with a beta-3 adrenoceptor agonist. Examples include prepns. of over 70 intermediates, 26 example compds. and some salts, and approx. 20 formulations. For instance, reductive alkylation of 3'-amino-[1,1'-biphenyl]-3-carboxylic acid Me ester with a corresponding BOC- and TBDMS-protected aldehyde, followed by deprotection with HCl in aqueous dioxane, and alkaline hydrolysis of the Me ester,

Ι

II

gave title compound II. In a cell culture assay of beta receptor subtypes, II had an EC50 of \leq 1 nM for h β 3 receptors, and > 300-fold selectivity for h β 3 over h β 2 and h β 1 subtypes.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; preparation of biaryl derivs. as β 3-adrenoceptor agonists)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 30 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:670110 CAPLUS

DN 131:286668

TI Preparation of 9-cis-retinoic acid analogs for increasing HDL levels

IN Epstein, Joseph William; Qing, Feng Ling; Birnberg, Gary Harold; Gilbert, Adam Matthew

PA American Cyanamid Company, USA

SO U.S., 22 pp., Cont.-in-part of U.S. Ser. No. 359,141. CODEN: USXXAM

DT Patent

LA English

FAN CNT 2

GI

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PAT	TENT	NO.			KINI)	DATE		·A	PP	LIC	'ATI	ON	NO.		D?	∤TE	
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US	5968	908			Α		1999											
IL	1162	59			Α		2000											
CA	2165	374			A1		1996	0620	С	:A	199	5-2	2165	374		19	951	215
ΑU	9540	438			Α		1996	0627	· A	U	199	5 - 4	1043	8		19	951	215
ΑU	6907	72			B2		1998	0430										
JΡ	0829	1094			A		1996	1105	J	ſΡ	199	5 - 3	3274	23		19	951	215
FI	9506	086			A		1996	0620	F	Ι	199	95'- (5086			19	951	218
ΕP	7182	85			A2		1996	0626	E	P	199	95-3	3091	71		19	951	218
EP	7182	85			A3		1996	0807										
EP	7182	85			B1		2001	0411										
	R:	ΑT,	BE,	CH,	DE,	DK	, ES,	FR,	GB,	GR	ì, I	E,	IT,	LI,	LU,	NL,	PT,	SE
HU	7400	7			A2		1996	1028	Н	U	199	5-3	3627			19	951	218
ZA	9510	757			A		1997	0618	Z	Ά	199	95 - 1	L075	7		. 19	951	218
BR	9505	938			A		1997	1223	В	3R	199	5-5	5938			19	951	218
CN	1176	248			Α		1998	0318	C	'N	199	95 - 3	1131	78		1:	995I.	218
EР	9974	55			A1		2000	0503	E	EΡ	200	0 - 1	L013	11		19	951	218
	R:	AT,	BE,	CH,	DE,	DK	, ES,	FR,	GB,	GR	2, I	T,	LI,	LU,	NL,	SE,	MC,	PT,
		IE,	SI,	LT,	LV													
ΑT	2004	81			${f T}$		2001	0415	A	T	199	95-3	3091	71		19	_	
TW	4147	90			В		2000	1211	T	W.	199	6-8	3510	0119		19	9960	106
CN	1320	599			A		2001		C	N	200	0 - 1	L280	89		20	0001	201
US	1994	-359	141		A2		1994	1219										
US	1995	-542	146		A		1995	1114										
EP	1995	-309	171		A3		1995	1218										٠
MAI	RAT	131:	2866	58														
	US ILL CAU AUP FI EPP EPP HU ZA BR CN EPP TW CN US EP	US 5968 IL 1162 CA 2165 AU 9540 AU 6907 JP 0829 FI 9506 EP 7182 EP 7182 EP 7182 EP 7182 EP 7180 CN 1176 EP 9974 R: AT 2004 TW 4147 CN 1320 US 1994 US 1995 EP 1995	PATENT NO US 5968908 IL 116259 CA 2165374 AU 9540438 AU 690772 JP 08291094 FI 9506086 EP 718285 EP 718285 EP 718285 EP 718285 R: AT, HU 74007 ZA 9510757 BR 9505938 CN 1176248 EP 997455 R: AT, IE, AT 200481 TW 414790 CN 1320599 US 1994-359 US 1994-359 US 1995-542 EP 1995-309	PATENT NO. US 5968908 IL 116259 CA 2165374 AU 9540438 AU 690772 JP 08291094 FI 9506086 EP 718285 EP 718285 EP 718285 EP 718285 R: AT, BE, HU 74007 ZA 9510757 BR 9505938 CN 1176248 EP 997455 R: AT, BE, IE, SI, AT 200481 TW 414790 CN 1320599 US 1994-359141 US 1995-542146 EP 1995-309171	PATENT NO. US 5968908 IL 116259 CA 2165374 AU 9540438 AU 690772 JP 08291094 FI 9506086 EP 718285 EP 718285 EP 718285 EP 718285 R: AT, BE, CH, HU 74007 ZA 9510757 BR 9505938 CN 1176248 EP 997455 R: AT, BE, CH, IE, SI, LT, AT 200481 TW 414790 CN 1320599 US 1994-359141 US 1995-542146	PATENT NO. US 5968908 IL 116259 CA 2165374 AU 9540438 AU 690772 JP 08291094 FI 9506086 EP 718285 EP 718285 EP 718285 EP 718285 B1 R: AT, BE, CH, DE, HU 74007 ZA 9510757 BR 9505938 CN 1176248 EP 997455 R: AT, BE, CH, DE, TE, SI, LT, LV AT 200481 TW 414790 CN 1320599 US 1994-359141 US 1995-542146 EP 1995-309171	PATENT NO.	PATENT NO.	PATENT NO. US 5968908 IL 116259 A 20000716 CA 2165374 A1 19960620 AU 9540438 A 19960627 AU 690772 B2 19980430 JP 08291094 A 19961105 FI 9506086 A 19960620 EP 718285 A2 19960626 EP 718285 A3 19960807 EP 718285 B1 20010411 R: AT, BE, CH, DE, DK, ES, FR, HU 74007 A2 19961028 CN 1176248 A 19970618 EP 997455 A1 19980318 EP 997455 A1 20000503 R: AT, BE, CH, DE, DK, ES, FR, LT, LV AT 200481 TW 414790 B 20001211 CN 1320599 A 20011107 US 1994-359141 A2 19941219 US 1995-542146 A 19951114 EP 1995-309171 A3 19951218	PATENT NO. KIND DATE US 5968908 A 19991019 IL 116259 A 20000716 II 116259 A 19960620 CA 2165374 A1 19960620 AU 9540438 A 19960627 AU 690772 B2 19980430 JP 08291094 A 19961105 FI 9506086 A 19960620 EP 718285 A2 19960626 EP 718285 A3 19960807 EP 718285 B1 20010411 R: AT, BE, CH, DE, DK, ES, FR, GB, HU 74007 A2 19961028 CN 176248 A 19970618 EP 997455 A1 20000503 R: AT, BE, CH, DE, DK, ES, FR, GB, TE, SI, LT, LV AT 200481 T 20010415 TW 414790 B 20001211 CN 1320599 A 20011107 US 1994-359141 A2 19941219 US 1995-542146 A 19951114 EP 1995-309171 A3 19951218	PATENT NO. KIND DATE APE US 5968908 A 19991019 US IL 116259 A 20000716 IL CA 2165374 A1 19960620 CA AU 9540438 A 19960627 AU AU 690772 B2 19980430 JP 08291094 A 19961105 JP FI 9506086 A 19960620 FI EP 718285 A2 19960626 EP EP 718285 B1 20010411 R: AT, BE, CH, DE, DK, ES, FR, GB, GR HU 74007 A2 19961028 HU 7A 9510757 A 19970618 ZA BR 9505938 A 19971223 BR CN 1176248 A 19980318 CN EP 997455 A1 20000503 EP R: AT, BE, CH, DE, DK, ES, FR, GB, GR IE, SI, LT, LV AT 200481 T 20010415 AT TW 414790 B 20001211 TW CN 1320599 A 20011107 CN US 1994-359141 A2 19941219 US 1995-542146 A 19951114 EP 1995-309171 A3 19951218	PATENT NO. KIND DATE APPLICATION APPLICATI	PATENT NO. KIND DATE APPLICATE US 5968908 A 19991019 US 1995-5 IL 116259 A 20000716 IL 1995-5 CA 2165374 A1 19960620 CA 1995-5 AU 9540438 A 19960627 AU 1995-6 AU 690772 B2 19980430 JP 08291094 A 19961105 JP 1995-6 EP 718285 A2 19960626 EP 1995-6 EP 718285 A2 19960626 EP 1995-6 EP 718285 B1 20010411 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, HU 74007 A2 19961028 HU 1995-6 EP 997455 A 19970618 ZA 1995-6 EP 997455 A 19970618 ZA 1995-6 EP 997455 A 19980318 CN 1995-6 EP 1995-309171 A 19951114 EP 1995-309171 A 19951114 EP 1995-309171 A 19951114	PATENT NO. KIND DATE APPLICATION	PATENT NO. KIND DATE APPLICATION NO	PATENT NO.	PATENT NO. KIND DATE APPLICATION NO. DATE US 5968908 A 19991019 US 1995-542146 19 IL 116259 A 20000716 IL 1995-116259 19 CA 2165374 A1 19960620 CA 1995-2165374 19 AU 9540438 A 19960627 AU 1995-40438 19 AU 690772 B2 19980430 JP 08291094 A 19961105 JP 1995-327423 19 FI 9506086 A 19960620 FI 1995-6086 19 EP 718285 A2 19960620 FI 1995-6086 19 EP 718285 A3 19960807 EP 718285 B1 20010411 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, HU 74007 A2 19961028 HU 1995-3627 19 ER 9505938 A 19970618 ZA 1995-10757 19 ER 9505938 A 19970618 ZA 1995-5938 19 CN 1176248 A 19980318 CN 1995-113178 19 EP 997455 A1 20000503 EP 2000-101311 19 ER: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, IE, SI, LT, LV AT 200481 T 20010415 AT 1995-309171 19 CN 1320599 A 20011107 CN 2000-128089 20 US 1994-359141 A2 19941219 US 1995-542146 A 19951114 EP 1995-309171 A3 19951218	PATENT NO. KIND DATE APPLICATION NO. DATE US 5968908 A 19991019 US 1995-542146 19951 IL 116259 A 20000716 IL 1995-116259 19951 AU 9540438 A 19960620 CA 1995-2165374 19951 AU 690772 B2 19980430 JP 08291094 A 19961105 JP 1995-327423 19951 FI 9506086 A 19960620 FI 1995-6086 19951 EP 718285 A2 19960626 EP 1995-309171 19951 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, HU 74007 A2 19961028 HU 1995-3627 19951 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, HU 74007 A2 19961028 HU 1995-3627 19951 EP 9505938 A 19970618 ZA 1995-10757 19951 EP 970455 A1 20000503 EP 2000-101311 19951 FI, SI, LT, LV AT 200481 T 20010415 AT 1995-309171 19951 TW 414790 B 20001211 TW 1996-85100119 19960 CN 1320599 A 20011107 CN 2000-128089 20001 US 1994-359141 A2 19941219 US 1995-542146 A 19951114 EP 1995-309171 A3 19951218

AB Novel analogs of 9-cis-retinoic acid I [Ar = (substituted) Ph, (substituted) tetrahydronaphthyl, (substituted) dihydroisobenzofuranyl; A, B, C = CH, CH2, O, S; D = (CH)m, (CH2)n; m = 0, 1; n = 0-2; R = H, Me, Et, tert-Bu, CF3; X = CH2OH, CHO, (substituted) CO2H, CN, CH2CONH2, tetrazol-5-yl; Y = H; XY = thiazolidinedionylidine], which are useful for the treatment and prevention of coronary artery disease and to protect against premature atherosclerosis by increasing HDL levels, are prepared Thus, addition of 2-bromo-5,6,7,8-tetrahydro-5,5,8,8-tetramethylnaphthalene to Et 2-trifluoromethanesulfonyloxycyclohexen-1-ylcarboxylate, followed by the addition of Et 3-methyl-4-oxocrotonate gave the Et ester of II. II showed a potency of >5 times that of 9-cis-retinoic acid in its ability to bind to apolipoprotein.

IT 87639-57-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 9-cis-retinoic acid analogs for increasing HDL levels)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 31 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:498626 CAPLUS

DN 131:163423

TI Photothermographic material containing sensitized photosensitive silver halide and recording method

IN Takiguchi, Hideki

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

PI JP 11218876

19990810 19980130

Α

JP 1998-33644

19980130

PRAI JP 1998-33644

os

MARPAT 131:163423

AB The material comprises a support having thereon a photosensitive layer containing at least a photosensitive Ag halide sensitized in the presence of a compound with an ammonium ion group, an adsorptive group on a Ag halide, and an unstable chalcogen atom site, an organic Ag halide, a reducing agent, and a binder. The material is exposed (to laser) for ≤10-2 s and developed by heating at 80-250°. The material shows improved storage stability for a long period before and after heat development giving images, especially, black and white.

IT 112056-11-8

RL: MOA (Modifier or additive use); USES (Uses)
(photothermog. material containing photosensitive silver halide sensitized by unstable chalcogen-containing ammonium compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 32 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:498625 CAPLUS

DN 131:177407

TI Photothermographic material containing sensitized photosensitive silver halide and recording method

IN Takiguchi, Hideki

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11218875	A	19990810	JP 1998-33643	19980130
PRAI	JP 1998-33643		19980130		

OS MARPAT 131:177407

The material comprises a support having thereon a photosensitive layer containing at least a photosensitive Ag halide sensitized in the presence of a compound with meso-ion group and an unstable chalcogen atom site, an organic Ag halide, a reducing agent, and a binder. The material is exposed (to laser) for ≤10-2 s and developed by heating at 80-250°. The material shows improved storage stability for a long period before and after heat development giving images, especially, black and white.

IT 112056-11-8

RL: MOA (Modifier or additive use); USES (Uses)
(photothermog. material containing silver halide sensitized in presence of
meso ion- and unstable chalcogen-containing compound with improved storage
stability)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 33 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:472037 CAPLUS

DN 131:163301

TI Heat-developable photographic material with improved developed image stability

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 29 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

GI

	U111 I						
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	JP 11202444	A	19990730	JP 1998-6559	19980116		
PRAI	JP 1998-6559		19980116				
os	MARPAT 131:163301						

$$x = c = s$$
 $(A1)_m \rightarrow Y - (A3)_r$

$$(A1)_{m}$$
 $(A1')_{m}$ $(A1')_{m}$ $(A2')_{n}$ $(A2')_{n}$ $(A3')_{r}$ $(A3')_{r}$

The title photog. material contains I (X = atoms forming heterocycle containing -SO3M, -XOOM and/or -OM; M = H, metal, quaternary ammonium, phosphonium), II or III (A1, A1' = -SO3M, -COOM, -OM; M = H, metal, quaternary ammonium, phosphonium; m = 1-10; A2, A2' = electron withdrawing group; n = 1-10; A3, A3' = function group containing S, Se, or Te; r = 0, 1; Y, Y1, Y2 = aliphatic, aromatic, heterocyclyl; Z = S, Se, Te; p = 1, 2). The material may contain addnl. IV (Q = aryl, heterocyclyl; X1, X2 = halo; Y3 = CO, SO, SO2; A = H, halo, electron withdrawing group; q = 2-6). The material shows reduced fog, improved color tone, storage stability, and developed image stability.

IT 112056-11-8

RL: DEV (Device component use); USES (Uses)
 (in heat-developable photog. material with improved developed image
 stability)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 34 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:449206 CAPLUS

DN 131:136833

TI Photothermographic copying material using silver halide sensitized with gold compound

IN Takiguchi, Hideki

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 36 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

rau.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
PI	JP 11194447	A	19990721	JP 1997-368955	19971226		
	JP 3777770	B2	20060524				
PRAI	JP 1997-368955		19971226	•			

OS MARPAT 131:136833

AB The title material contains a photosensitive Ag salt which has been chemical sensitized in the presence of an organic Au compound, an organic Ag salt, a reducing agent, and a binder on a support. An imaging method is also claimed, in which the material is recorded by exposure for 10-2 s followed by heat treatment at 80-250°. The material shows high sensitivity and improved storage stability before and after heat development.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photothermog. copying material using silver halide sensitized with gold compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 35 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:370132 CAPLUS

DN 131:51981

TI Silver halide photographic material for X-ray photography

IN Goan, Kazuyoshi

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 40 pp.

CODEN: JKXXAF

Patent LA Japanese

FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE		
ΡI	JP 11153842	Α	19990608	JP 1998-261579	19980916		
	US 6127109	Α	20001003	US 1998-151160	19980910		
PRAI	JP 1997-252077	Α	19970917				

The silver halide photog. material has hydrophilic colloid layers including a silver halide emulsion layer on a support, wherein the colloid layer has silver halide particles; (a) of which $\geq 50\%$ in the total projection area has $\geq 70\%$ of silver iodide in the total silver halide particles in the ≥70 % outside of the complete particle volume; (b) of which halide composition between particles in the uppermost

layer is ≤20%; and (c) of which shape is tabular with aspect ratio 3-15 and also has a sulfur compound having a hydrophilic substitute. The photog. material is suited for rapid processing without often refilling process solns. while showing the low-fogging and the high sensitivity.

IT112056-11-8

> RL: TEM (Technical or engineered material use); USES (Uses) (sulfur compound for silver halide photog. material)

RN 112056-11-8 CAPLUS

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX CNNAME)

ANSWER 36 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

1999:340969 CAPLUS

DN

Silver halide photographic material chemically sensitized with chalcogenide, its treatment, and its x-ray imaging

IN Kashiwagi, Kanji

PA Konica Co., Japan

Jpn. Kokai Tokkyo Koho, 69 pp. SO

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
	FAIENT NO.	KİND	DAIL	APPLICATION NO.			
PI	JP 11143005	A	19990528	JP 1997-307061	19971110		
PRAI	JP 1997-307061		19971110				

The photoq. material is characterized (1) that ≥1 of photog.

emulsion layers is chemical sensitized with a compound having (a) a water-soluble

group, (b) a group adsorbable to Ag halides, and (c) a labile chalcogenide group in a mol., and (2) that the emulsion layer(s) or other hydrophilic colloid layer contain (d) a heterocyclic compound having thicketo group (other than cyclic thiourea derivative), (e) a disulfide compound, and/or (f) a mercapto compound Also claimed is the method for processing the material using an automatic processor and a solid chemical kit. Further claimed is diagnostic x-ray imaging of the above material sandwiched between a pair of fluorescent paper sheets. The material showing improved speed/fog

relation can be processed by erythorbic acid developer solution without hydroquinone at higher speed.

IT 112056-11-8

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(development and x-ray imaging of silver halide photog. material chemical sensitized with chalcogenide)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 37 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:260816 CAPLUS

DN 130:330530

TI Silver halide photographic material and its photographic method and processing

IN Takiguchi, Hideki

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 54 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11109545 PRAI JP 1997-275701	A	19990423 19971008	· JP 1997-275701	19971008

AB The title material, possessing hydrophilic colloid layers including ≥1 Ag halide emulsion layer on a support, contains (1) tabular Ag halide grains which can form development-beginning point at the vertexes (corners) of the grains and in the vicinity of them in the emulsion layer and (2) ≥1 compound selected from I [Z = atoms required to form a 5-to 6-membered N-containing heterocycle having ≥1 of SO3M1 or CO2M2 (M1, M2 = H, alkali metal, ammonium, phosphonium) directly or indirectly, the heterocycle has no partial structure NHC(:S)NR1 (R1 = H or substituent)], A1mYA2nA3r, and A1mYA2nA3r-1X2YA1'mA2'nA3'r-1 [A1, A1' = SO3M1, CO2M2; A2, A2' = electron-attracting group; A3, A3' = functional group containing S or Se capable of binding to Ag ion; m, n = 1-10; r = 1 or 2; Y = aliphatic or aromatic

hydrocarbon; X = S or Se] in the colloid layers. The material is imagewise exposed and processed continuously by using an automatic processor in which the total processing time is 5-30 s. In the process, solid processing agents may be supplied in the processing solns. in the

each step. A dihydroxybenzene-free developing solution containing a compound R13C(:Y1)CR11:CR12R14 (R11, R12 = OH, amino, acylamino, alkylsulfonylamino, arylsulfonylamino, alkoxycarbonylamino, SH, alkylthio; R13, R14 = OH, CO2H, alkoxy, hydroxyalkyl, carboxyalkyl, sulfo, sulfoalkyl, amino, aminoalkyl, SH, alkyl, aryl, R13 and R14 may be atoms linking to form a 5- to 8-membered ring along with the 3 C atoms; Y1 = :O, :NR15; R15 = H, OH, alkyl, acyl, hydroxyalkyl, sulfoalkyl, carboxyalkyl) may be used in the developing process. A photog. method is also claimed, in which the material is sandwiched with a pair of intensifying screens which show $\geq\!\!45\%$ absorption toward x-ray with x-ray energy 80 kVp and in which the filling rate of fluorescent substance is $\geq\!\!68\%$ and the thickness of the fluorescent substance is 135-200 μ m and exposed to x-ray. The material shows high sensitivity and low fog and provides Ag images with neutral black image tone.

IT 112056-11-8

RL: DEV (Device component use); MOA (Modifier or additive use); USES (Uses)

(radiog. film containing sulfur or selenium compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI). (CA INDEX NAME)

L5 ANSWER 38 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:209912 CAPLUS

DN 130:259492

TI Silver halide photographic emulsion, sensitive material with reduced dye stain, and exposing and processing methods

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

	PATENT NO.		DATE	APPLICATION NO.	DATE		
	JP 11084570 JP 1997-256141	A .	19990326 19970904	JP 1997-256141	19970904		
GI							

AB The Ag halide emulsion contains ≥1 selected from MXArFmQn (I) and FmQnArXxArFm'Qn' (II; Ar = aliphatic or aromatic hydrocarbons; Q = SO3M, CO2M,

I

OM; M = H, metal, quaternary ammonium salt, phosphonium; m or m' is >1 and <9; n or n' is >1 and <9; m + n \leq 10; m' + n' \leq 10; X = S, Se, Te; x = 1, 2). Silver halide grains contained in the emulsion containing I and/or II are reduction-sensitized and chemical sensitized with \geq 1 of S, Se, and Te in the presence of \geq 1 spectrally sensitizing dye III [R1, R3 = (un)substituted lower alkyl, alkenyl; R2, R4 = alkyl; Z1-4 = H, substituent; X = charge-neutralizing ion; n = 1, 2]. The sensitive material containing the emulsion is processed with solns. prepared by using solid processing agents in developing and fixing steps, wherein all processing steps including drying may be done by an instantaneously self-developing diffusion transfer system. The sensitive material sandwiched with an intensifying screen containing fluorescent material with 68-90% content is exposed to x-rays. The material shows low fog, high sensitivity, less dye stain, and improved antipressure marks.

IT 112056-11-8

RL: MOA (Modifier or additive use); USES (Uses)

(in silver halide radiog. emulsion containing sensitizing dye with reduced dye stain)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 39 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:209911 CAPLUS

DN 130:274046

TI Silver halide photographic material containing sulfur compound and hydrazine derivative and processing thereof

IN Ishikawa, Wataru

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 44 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11084569	 А	19990326	JP 1997-248462	19970912
PRAI	JP 1997-248462		19970912		

OS MARPAT 130:274046

AB The title material, possessing ≥1 photosensitive Ag halide emulsion layer and ≥1 hydrophilic colloid layer on a support, contains ≥1 compound R1SmR2 or RSMy (R1, R2 = aliphatic, aromatic or heterocyclic group, atoms that link each other to form a ring; m = 2-6; R = water-soluble group-substituted aliphatic group or aromatic, heterocyclic or alicyclic group, y = 0 or 1, when y = 0, the RSMy is R:S; M = H, alkali metal, cation) in the emulsion layer and a hydrazine derivative in the emulsion layer and/or its adjacent non-photosensitive hydrophilic colloid layer. The material is imagewise exposed and processed by using an automatic processor in which the replenishment rates of the developing and fixing solns. are 50-150 and 100-300 mL/m2 material, resp. The material for printing platemaking shows stable sensitivity, high dot quality, low fog, and little pepper fog even in continuous processing using low replenishment rates.

IT 112056-11-8

RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion containing sulfur compound and hydrazine derivative)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 40 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:207364 CAPLUS

DN 130:274035

TI Silver halide emulsion, processing of photosensitive material using same, and photography of the material

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 33 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

FAN.		TENT	NO.		KIN	D DATI	Ξ	AP	PLICA:	rion 1	NO.		D?	ATE	
PI		1108 9055	4556		A A1		90326 90331		1997- 1998-					99709	
			AT,		DE,	DK, ES,	, FR,					NL,	SE,	MC,	PT,
PRAI GI	JP	1997		,	A		70908		*			•			

AB The title emulsion contains reduction-sensitized Ag halide grains and a compound

I [X = atoms having ≥ 1 selected from SO3M, CO2M, and OM (M = H, metal atom, quaternary ammonium, sulfonium) directly or indirectly and forming a heterocycle, I excludes compds. having a structure NHC(:S)NR (R = H or substituent)], AlmYA2nA3r or AlmYA2nA3r-1ZpYA1'mA2'nA3'r-1 (A1, A1' = SO3M, CO2M, OM; A2, A2' = electron-attracting group, A3, A3' = functional group containing S, Se or Te atom capable of bonding to Ag+; m, n = 1-10, r = 1 or 2; Y = aliphatic or aromatic hydrocarbon, heterocycle; Z = S,

II

Se,

Te; p = 1 or 2) and is subjected to ≥1 selected from S-, Se-, and Te-sensitization in the presence of a spectrally sensitizing dye II [R1, R3 = (substituted) lower alkyl, (substituted) alkenyl; R2, R4 = alkyl, ≥1 of R2 and R4 is hydrophilic group-substituted alkyl; Z1-4 = H or substituent; X1- = ion required to neutralize the charge in the mol.; n = 1 or 2, when II forms an inner salt, n = 1]. The photosensitive material using the emulsion is continuously processed by a process including development and fixing steps while the solid processing agents are supplied to the processing solns. in the each step. The material sandwiched with intensifying screens, in which the filling rate of fluorescent substance is 68-90%, is subjected to x-ray photog. The material shows good photog. properties and pressure resistance even in rapid processing using a low replenishment rate.

IT 112056-11-8

RL: DEV (Device component use); MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(reduction-sensitized photog. emulsion containing compound having carboxy or sulfonate group)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 41 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1999:157080 CAPLUS

DN 130:229933

TI Silver halide photographic material, photography, and processing thereof

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 44 pp.

Ι

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 11065014	A	19990305	JP 1997-223555	19970820	
PRAI	JP 1997-223555		19970820			
GI						

AB The title material, possessing a Ag halide emulsion layer on a support, is chemical sensitized in the presence of ≥ 1 compound RSMm (R = aliphatic,

М

= H, alkali metal, cation; m = 0 or 1, when m = 0, the compound has the formula R:S) and contains a developing agent I (R2-6 = H or substituent, the total C number of R2-6 is ≥8 and ≥1 of R2 and R4 is OH, sulfonamide or carbonamide, R2-6 may form a ring along with OZ; Z = H or protective group which is released under alkali conditions to form OH) or II (X = aryl, heterocyclic group, CR11R12R13; R11-13 = H or substituent other than OH). The title processing method includes development, fixing, and drying steps, in which the total processing time is $\leq 60 \text{ s}$ and the replenishment rate of the developing and fixing solns. is ≤ 30 cc/10 + 12 in. size. A photog. method is also claimed, in which the material sandwiched between high-sensitive intensifying screens in which the filling rate of the fluorescent substance is 68-90% is subjected to x-ray photograph. The material, useful as a medical x-ray film, shows low fog, high sensitivity, decreased residual color stain, and improved storage stability.

IT 112056-11-8

> RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion chemical sensitized in presence of sulfur compound fog inhibitor)

112056-11-8 CAPLUS RN

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

ANSWER 42 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L5

ΑN 1999:111844 CAPLUS

130:189358 DN

Silver halide photographic material, processing thereof, and x-ray image TI formation

IN Kashiwagi, Hiroshi

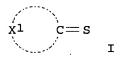
PΑ Konica Co., Japan

Jpn. Kokai Tokkyo Koho, 30 pp. SO CODEN: JKXXAF

DT Patent

LA Japanese

FAN.	CNT 1						
PATENT NO.		KIND	DATE	APPLICATION NO.	DATE		
PI	JP 11038547	Α	19990212	JP 1997-195585	19970722		
PRAI	JP 1997-195585		19970722				
CT							



AΒ

layer and hydrophilic colloid layers adjacent to the emulsion layer on a support, contains, in ≥1 layer selected from the emulsion layer and/or colloid layers, either ≥1 compound I [X1 = atoms required to form a heterocycle having ≥1 SO3M1 or CO2M1 directly or indirectly along with the C atom in formula I; M1 = H, metal atom, quaternary ammonium, sulfonium; the compound has no partial structure NHC(:S)NR1 (R1 = H or substituent)], A21mYA22nA23 (II) or A21mA22nA23r-1YZ2YA'21mA'22nA'23r-1 (III) [A21, A'21 = SO3M21, CO2M21 (M21 = H, metal atom, quaternary ammonium, phosphonium); m = 1-10; A22, A'22 = electron-attracting group; n = 1-10; A23, A'23 = functional group containing S or Se atom that can combine to Ag ion; r = 1 or 2; Y = aliphatic or aromatic hydrocarbon; Z = S or Se] or ≥2 compds. having different general formulas in I, II, and III. The material is imagewise exposed and processed by using an automatic processor in which solid processing agents are supplied to the each processing bath. The material is sandwiched by fluorescent intensifying screens and subjected to x-ray photog. The material shows high covering power and sensitivity, low fog, and improved storage stability.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion showing high sensitivity and good storage stability)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 43 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:816682 CAPLUS

DN 130:117280

TI Silver halide photographic material containing mercapto compound and its processing method

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 37 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 10339925	Α	19981222	JP 1997-149282	19970606	
PRAI	JP 1997-149282		19970606			
~~	MADDAM 130 117000					

OS MARPAT 130:117280

AB The material comprising a support having thereon ≥1 photosensitive Ag halide emulsion layer with 0.01-2 mol% iodide content (based on the total particles) on the subsurface to the most outer surface, contains RSMm (R = aliphatic group substituted with a water soluble group, aromatic, heterocyclic, alicyclic group; m = 1, 0; M = H, alkali metal atom, cation; upon m = 0, R = S). The material may contain ≥1 benzimidazolocarbocyanine dye as spectral sensitizer. The material is continuously processed by an automatic developing apparatus in which a solid processing agent is provided. The material shows high sensitivity, low fog, high maximum d., less dye stain, and improved storage stability.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. film containing mercapto compound)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 44 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:781976 CAPLUS

DN 130:73782

TI Silver halide photographic material, its processing, and photographic method

IN Kashiwagi, Kanji

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 32 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10319531 PRAI JP 1997-128572	A	19981204 19970519	JP 1997-128572	19970519

The material having hydrophilic colloid layers (A) including ≥1. AB photosensitive Ag halide emulsion layer (B), comprises as follows: (B) contains tabular grains (C) with 3-15 average aspect ratio in ≥50% of the total projection area; thiocyanate content on the surface of (C) is 1 + 10-4-2 + 10-3 mol/Ag-mol; and (A) contains ≥1 RSMx (R = aliphatic, aromatic, or heterocyclic ring having water-soluble group; SMx = a group adsorbable to the Ag halide; M = H, alkali metal atom, cation; x =0, 1; upon x = 0, M = cation). The material is processed after imagewise exposure by an automatic developing apparatus, to which a solid processing agent is applied. In the processing, a dihydroxybenzene-free developer containing I (R1, R2 = OH, amino, acylamino, alkylsulfonylamino, arylsulfonylamino, alkoxycarbonylamino, mercapto, alkylthio; P, Q = OH, CO2H, alkoxy, hydroxyalkyl, carboxyalkyl, sulfo, sulfoalkyl, amino, aminoalkyl, methylmercapto, alkyl, aryl, atoms to form 5- to 8-membered ring with two C atoms of a vinyl linked with R1 and R2 and C atom linked with Y; Y = O, :NR3; R3 = H, OH, alkyl, acyl, hydroxyalkyl, sulfoalkyl, carboxyalkyl) may be used. The material is exposed to x-rays, which is sandwiched with highly sensitive intensifying screens. The material shows high sensitivity, less fog, and improved storage stability at high temperature IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion containing mercapto compound and silver halide tabular grains containing thiocyanate)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 45 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:682229 CAPLUS

DN 129:302552

TI Preparation of 1,4-disubstituted cyclic amine derivatives as serotonin antagonists

IN Kitazawa, Noritaka; Ueno, Kohshi; Takahashi, Keiko; Kimura, Teiji; Sasaki, Atsushi; Kawano, Koki; Okabe, Tadashi; Komatsu, Makoto; Matsunaga, Manabu; Kubota, Atsuhiko

PA Eisai Co., Ltd., Japan

SO PCT Int. Appl., 635 pp.

CODEN: PIXXD2

DT Patent LA Japanese

FAN.CNT 1

L'ATIV. C	C14.1 T				
	PATENT NO. ·	KIND D	DATE	APPLICATION NO.	DATE
			-		
				WO 1998-JP1481	
	W: AU, CA, C	N, HU, JP,	KR, MX,	NO, NZ, RU, US	
				FR, GB, GR, IE, IT, I	
	TW 242011	B 2	20051021	TW 1998-87104733	19980330
•	CA 2280753	A1 1	19981008	TW 1998-87104733 CA 1998-2280753	19980331
	AU 9865209	A 1	19981022	AU 1998-65209	19980331
	AU 748038	B2 2	20020530	AU 1998-65209	
	ZA 9802707	A 1	19991020	ZA 1998-2707	19980331
	EP 976732	A1 2	20000202	ZA 1998-2707 EP 1998-911137	19980331
	EP 976732				
	R: AT, BE, C	H, DE, DK,	ES, FR,	GB, GR, IT, LI, LU, 1	NL, SE, PT, IE, FI
	HU 200000434	A2 2	20000628	HU 2000-434	19980331
	N7 337651	7a 2	20020426	N7 1998-337651	19980331
	RU 2203275	C2 2	20030427	RU 1999-123039 AT 1998-911137 ES 1998-911137 US 1999-367227	19980331
	AT 283259	T 2	20041215	AT 1998-911137	19980331
•	ES 2230681	T3 2	20050501	ES 1998-911137	19980331
	US 6448243	B1 2	20020910	US 1999-367227	19990811
	NO 9904720	A 1	19991130	NO 1999-4720	19990928
	NO 314543	B1 2	20030407		
	HK 1026700	A1 2	20050826	HK 2000-105871	20000919
	US 2002086999	A1 2	20020704	US 2001-846259	20010502
	US 7071201	B2 2	20060704		
•	US 2002019531	A1 2	20020214	US 2001-859517	20010518
•	US 6579881	B2 2	20030617		
PRAI	JP 1997-98433	A 1	L9970331		•
	JP 1997-366764	A 1	L9971226		
	WO 1998-JP1481	W 1	L9980331		·
	US 1999-367227		19990811		
os	MARPAT 129:302552				

AB The title compds. (I; A, B, C, D, T, Y, and Z each represents a methine group or a nitrogen atom; R1, R2, R3, R4, and R5 each represents a substituent, such as halo, OH, hydroxyalkoxy, lower alkyl, etc.; n is an integer of 0 to 3; m is an integer of 0 to 6; and p is an integer of 1 to 3; dotted bond represents a single or double bond) are prepared I have serotonin antagonism and serve as drugs for the treatment, alleviation and prevention of spastic paralysis or a central muscle relaxant for alleviating myotonia. Thus, indoline was reacted with 1-(4-fluorophenyl)-4-piperidone in the presence of NaB(OAc)3 in AcOH and dichloroethane to give 63% the title compound (II), which showed binding activity of 623.94 and > 200 nM for 5HTla and 5HT2 resp.

IT 87639-57-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 1,4-disubstituted cyclic amine derivs. as serotonin antagonists)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 46 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1998:656150 CAPLUS

DN 129:337559

TI Silver halide photographic material and its photography and processing

IN Ho, Sokuman

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 30 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

				·	
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 10268459	Α	19981009	JP 1997-73417	19970326

19970326

PRAI JP 1997-73417 OS MARPAT 129:337559

AB The title material possesses, on a support, ≥1 Ag halide emulsion layer containing Ag halide grains which are granulated in the presence of a Ag halide solvent and chemical sensitized in the presence of ≥1 compound R21SmR22 (R21, R22 = aliphatic or aromatic group, heterocyclic group, atoms required to form a ring; m = 2-6) and contain a compound RSM (R = aliphatic or aromatic group, heterocyclic group; M = H, alkali metal, cation) after chemical sensitization. The material may contain ≥1 benzimidazolocarbocyanine compound as a spectral sensitizer. The material is imagewise exposed and then processed by using an automatic processor of which the total processing time is 5-30 s. The material is sandwiched by high-sensitive intensifying screens and then subjected to x-ray photog. The material shows high sensitivity and Dmax, low fog and residual color stain, and good safelight property.

IT 112056-11-8

RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)

(photog. emulsion containing silver halide solvent, disulfide and thiol compds.)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 47 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1997:326872 CAPLUS

DN 126:305581

TI Preparation of 6-(3-pyrazolecarbonyl)thiochroman derivatives as herbicides

IN Sakamoto, Masashi; Kamano, Hideki; Yamamoto, Hiroshi; Ikeda, Hidetsugu

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 156 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN. CNT 1

		_																
	PAT	CENT I	NO.			KIN	D :	DATE			APPL	ICAT	ION I	NO.		D	ATE	
		- 					-											
PI	WO	9712	885	•		A1		1997	0410	,	WO 1	996-	JP28	79		19	9961	003
		W:	AL,	AM,	AU,	BB,	BG,	BR,	CA,	CN,	CZ,	EE,	FI,	GE,	HU,	IS,	JP,	KG,
			KR,	LK,	LR,	LT,	LV,	MD,	MG,	MK,	MN,	MX,	NO,	NZ,	PL,	RO,	SG,	SI,
			SK,	TR,	TT,	UA,	US,	UZ,	VN,	AM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM
		RW:	KΕ,	LS,	MW,	SD,	SZ,	UG,	ΑT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,	GB,	GR,
			ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	ΒF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	ML,
			MR,	NE,	SN.,	TD,	TG											
	ΑU	9671	452			, A		1997	0428		AU 1	996-	7145	2		19	9961	003
	EΡ	9709	56			A1		2000	0112		EP 1	996-	9328	10		15	9961	003
		R:	DE,	FR,	GB													
	US	6159	904			Α		2000	1212	•	US 1	999-	2767	40		19	9990:	326
PRAI	JP	1995	-257	973		A		1995	1004									
	JP	1995	-322	030		A		1995	1211									
	WO	1996	-JP2	879		W		1996	1003									
os	MAI	RPAT	126:	3055	81 ,						,							•
GT													:					

Pyrazole derivs. represented by general formula [I; R1 = C1-4 alkyl, C2-4 AB (halo)alkenyl; R2 = H, C1-4 (halo)alkyl, C2-4 alkoxyalkyl; X = C1-4(halo)alkyl, C2-4 alkoxyalkyl, halo, C1-4 (halo)alkoxy; p = 0,1,2; R3 - R6 = H, C1-4 alkyl, C1-4 haloalkyl, C2-4 alkoxyalkyl, halo; or R3 or R4 may form a bond with R5 or R6; n = 0,1,2; Q = H, A-B; wherein A = SO2, CO, (un) substituted CH2CO or CH2 and B = C1-12 alkyl, C3-10 cycloalkyl, substituted Ph; Z = CO, CS, substituted CH2, Q1; R12, R13 = O, S, CH2; q = 2-4] or their salts and aromatic carboxylic acid derivs. or their salts appropriate as intermediates for producing the pyrazole derivs. are prepared In both of soil and foliage treatments, the pyrazole derivs. or their salts make it possible to selectively control a wide variety of upland weeds such as grassy and broadleaf weeds at a low dosage without causing any chemical injury on upland crops such as corn. Thus, 6-carboxy-3,3,5,8tetramethylthiochroman-4-one-1,1-dioxide (preparation given) was condensed with 1-ethyl-5-hydroxypyrazole using DCC in tert-amyl alc. at room temperature for 1 h and then heated at 80-90° in the presence of K2CO3 for 8 h to give 82% the title compound (II). II at 300 g/ha preemergence soil application controlled 100% Digitaria ciliaris, Echinochloa crus-galli, Xanthium pensylvanicum, and Abutilon theophrasti.

IT 189207-88-3P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (pyrazolecarbonyl)thiochroman derivs. and analogs as herbicides)

RN 189207-88-3 CAPLUS

CN 2H-1-Benzothiopyran-6-carboxylic acid, 8-chloro-4-(ethylthio)-3,4-dihydro-5-methyl-, 1-ethyl-1H-pyrazol-5-yl ester (9CI) (CA INDEX NAME)

L5 ANSWER 48 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:687361 CAPLUS

DN 125:328708

TI Preparation of pyrazole derivatives as herbicides

IN Shibata, Mitsuru; Sakamoto, Masashi; Kamano, Hideki; Yamamoto, Hiroshi

PA Idemitsu Kosan Co., Ltd., Japan

SO PCT Int. Appl., 118 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.

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19961003
                                                 WO 1996-JP811
                                                                            19960328
PΙ
     WO 9630368
                             A1
              AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KG, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK,
          W:
              TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR,
              IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML,
              MR, NE, SN, TD, TG
     CA 2214854
                             A1
                                    19961003
                                                  CA 1996-2214854
                                                                            19960328
     AU 9651206
                                                                            19960328
                                    19961016
                                                 AU 1996-51206
                             Α
                                                  EP 1996-907678
                                                                            19960328
     EP 818455
                             A1
                                    19980114
          R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT
                                                                            19960328
     CN 1184477
                                                  CN 1996-193994
                             Α
                                    19980610
                             Α
                                                 BR 1996-7749
                                                                            19960328
     BR 9607749
                                    19980623
PRAI JP 1995-69760
                             Δ
                                    19950328
                             Α
                                    19950626
     JP 1995-158842
     WO 1996-JP811
                             W
                                    19960328
os
     MARPAT 125:328708
GI
```

AB The title compds. I [R1 = alkyl, etc.; R2 = H, alkyl, etc.; X = alkyl, etc.; p = 0 - 2; R3 = alkyl, haloalkyl, etc.; R4 - R7 = H, alkoxyalkyl, etc.; n = 0 - 2; Q = H, etc.] are prepared I have a remarkably excellent crop-weed selectivity in both foliage and soil treatments. The title compound II (preparation given) at 300 g/ha gave complete control of Setaria viridis, Xanthium strumarium, etc., and caused no damage to corn.

IT 183238-00-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of pyrazole derivs. as herbicides)

RN 183238-00-8 CAPLUS

CN 2H-1-Benzothiopyran-6-carboxylic acid, 8-fluoro-3,4-dihydro-4-(methoxyimino)-5-methyl-, 1,1-dioxide (9CI) (CA INDEX NAME)

L5 ANSWER 49 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:476784 CAPLUS

DN 125:143084

TI Preparation of 9-cis-retinoic acid analogs for increasing HDL levels

IN Quing, Feng-Ling; Birnberg, Gary H.; Epstein, Joseph W.; Gilbert, Adam M.

PA American Cyanamid Company, USA

SO Eur. Pat. Appl., 53 pp.

CODEN: EPXXDW

DT Patent LA English

FAN.	CNT 2			
	PATENT NO.	KIND DATE	APPLICATION NO.	DATE
ΡI	EP 718285	A2 19960626	EP 1995-309171	19951218
•	EP 718285	A3 19960807	·	
	EP 718285	B1 20010411		
	R: AT, BE, CH,	DE, DK, ES, FR, C	GB, GR, IE, IT, LI, LU,	NL, PT, SE
	US 5968908	A 19991019	US 1995-542146	19951114
	·EP 997455	A1 20000503	EP 2000-101311	19951218
	R: AT, BE, CH,	DE, DK, ES, FR, C	GB, GR, IT, LI, LU, NL,	SE, MC, PT,
	IE, SI, LT,	LV	•	
PRAI	US 1994-359141	A 19941219		
	US 1995-542146	A 19951114		
	EP 1995-309171	A3 19951218		
os	MARPAT 125:143084			
GT				*

AB Novel analogs of 9-cis-retinoic acid I [Ar = (substituted) Ph, (substituted) tetrahydronaphthyl, (substituted) dihydroisobenzofuranyl; A, B, C = CH, CH2, O, S; D = (CH)m, (CH2)n; m = 0, 1; n = 0-2; R = H, Me, Et, tert-Bu, CF3; X = CH2OH, CHO, (substituted) CO2H, CN, CH2CONH2, tetrazol-5-yl; Y = H; XY = thiazolidinedionylidine], which are useful for the treatment and prevention of coronary artery disease and to protect against premature atherosclerosis by increasing HDL levels, are prepared Thus, addition of 2-bromo-5,6,7,8-tetrahydro-5,5,8,8-tetramethylnaphthalene to Et 2-trifluoromethanesulfonyloxycyclohexen-1-ylcarboxylate, followed by the addition of Et 3-methyl-4-oxocrotonate gave the Et ester of II. II showed a potency of >5 times that of 9-cis-retinoic acid in its ability to bind to apolipoprotein.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 9-cis-retinoic acid analogs for increasing HDL levels)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 50 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1996:325183 CAPLUS

DN 125:48361

TI Studies on quinolone antibacterials. IV. Structure-activity relationships of antibacterial activity and side effects for 5- or 8-substituted and 5,8-disubstituted-7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-1,4-dihydro-4-oxoquinoline-3-carboxylic acids

AU Yoshida, Toshihiko; Yamamoto, Yoichi; Orita, Hitomi; Kakiuchi, Masato; Takahashi, Yoshie; Itakura, Masakazu; Kado, Noriyuki; Mitani, Kazuya; Yasuda, Shingo; et al.

CS Research and Development Division, Hokuriku Seiyaku Co., Ltd., Katsuyama, 911, Japan

SO Chemical & Pharmaceutical Bulletin (1996), 44(5), 1074-1085 CODEN: CPBTAL; ISSN: 0009-2363

PB Pharmaceutical Society of Japan

DT Journal

LA English

OS CASREACT 125:48361

AB A series of 7-(3-amino-1-pyrrolidinyl)-1-cyclopropyl-1,4-dihydro-4-oxoquinoline-3-carboxylic acids bearing various substituents (H, F, Cl, Me, OH, OMe, OEt, OCH2F, OCHF2, OCF3, SMe) at the C-8 position was prepared and evaluated for in vitro antibacterial activity against both standard laboratory

strains and bacteria resistant to quinolones such as ciprofloxacin (CPFX) and ofloxacin (OFLX) from clin. isolates. The 8-Me, 8-fluoro, 8-chloro and 8-methoxy compds. were 4 times more potent than CPFX against both gram-pos. and gram-neg. bacteria. But these 4 compds. caused injury to the chromosomes of mammalian cells at a concentration of 100 μ g/mL. Next, a series of quinolones having various substituents (H, Cl, Me, NH2, NHMe, NMe2) at the C-5 position was prepared and evaluated for antibacterial activity and injurious effect on the chromosome. We found that the 5-amino-8-Me compound showed strong bacterial activity (in vitro antibacterial activity 4 times more potent than that of CPFX against both gram-pos. and gram-neg. bacteria), reduced injury to the chromosome, and reduced quinolone-type toxicity (free from both phototoxicity at a dosage of 30 mg/kg in guinea pigs (i.v.) and convulsion-inducing activity when coadministered with fenbufen at a dosage of 100 mg/kg in mice (i.p.)).

IT 112056-11-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; synthesis and antibacterial activity of
(aminopyrrolidinyl)cyclopropyloxoquinolinecarboxylic acids)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 51 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1995:849949 CAPLUS

DN 124:9089

TI $1\alpha,25$ -Dihydroxyvitamin D3 Analogs Featuring Aromatic and Heteroaromatic Rings: Design, Synthesis, and Preliminary Biological Testing

AU Posner, Gary H.; Li, Zhengong; White, M. Christina; Vinader, Victoria; Takeuchi, Kazuhiro; Guggino, Sandra E.; Dolan, Patrick; Kensler, Thomas W.

CS School of Arts and Sciences, Johns Hopkins University, Baltimore, MD, 21218, USA

SO Journal of Medicinal Chemistry (1995), 38(22), 4529-37 CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

OS CASREACT 124:9089

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Aromatic compds. I (R = HO, HOCH2, HOCH2CH2), analogs of 1α,25-dihydroxyvitamin (calcitriol), and heteroarom. compds. II (R = HO, HOCH2, HOCH2CH2; X = O, S), analogs of 19-nor-1α,25-dihydroxyvitamin D3, were designed to simulate the topol. of their biol. potent parent compds. while avoiding previtamin D equilibrium Convergent and facile total syntheses of the analogs (+)-I (R = HOCH2, HOCH2CH2) and (-)-II (R = HOCH2; X = S, O) were achieved via carbonyl addition of regiospecifically formed organolithium nucleophiles to the enantiomerically pure C,D-ring ketone, characteristic of natural calcitriol. Likewise, hybrid analogs were prepared to determine whether incorporation of a known potentiating side chain would lead to increased biol. activity. Preliminary in vitro biol. testing showed that aromatic analogs as well as heteroarom. analogs have very low affinities for the calf thymus vitamin D receptor but considerable antiproliferative activities in murine keratinocytes at micromolar

concentration

No biol. advantage was observed in this keratinocyte assay for the doubly modified hybrid analogs over the singly modified parent (+)-II (R = HOCH2, X = S). (+)-II (R = HOCH2, X = S) showed considerable activity in nongenomic opening of calcium channels in rat osteosarcoma cells.

IT 87639-57-4, Dimethyl 4-bromophthalate

RL: RCT (Reactant); RACT (Reactant or reagent) (preparation and activity of $1\alpha,25$ -dihydroxyvitamin D3 analogs featuring aromatic and heteroarom. rings)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 52 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1994:324484 CAPLUS

DN 120:324484

TI Hardenable imide oligomers

IN Furuya, Hiroyuki; Ida, Junya; Nagano, Kosaku

PA Kanegafuchi Chemical Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 14 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 05339375 PRAI JP 1992-177335	A	19931221 19920610	JP 1992-177335	19920610
OT		17720010		

The title oligomers giving cured products with high heat resistance, good mech. strength and dimensional stability, and low water-absorption, useful for laminates, varnishes, etc., have ethynyl-terminated structure I (Arl = tetravalent aromatic groups; Ar2 = divalent aromatic group, where ≥2 mol of Ar2 are C6H4CO2Ar3OCOC6H4; Ar3 = divalent aromatic groups; X = trivalent groups selected from II, III, and/or combination of NHCO and CO2H; n = 0-15). Thus, 3.22 g benzophenonetetracarboxylic dianhydride and 1.46 g 1,3-bis(3-aminophenoxy)benzene were treated with 2.23 g 2,2-bis(4-aminobenzoyloxyphenyl)propane in DMF at 80° for 2 h, with 1.07 g 3-ethynylphthalic anhydride and then with 11 mL Ac2O and 10 mL pyridine to obtain imide oligomer, which was hot pressed to give test pieces showing bending strength 42.6 kg/mm2, flexural modulus 315 kg/mm2, impact strength 435 kg-cm/cm2, glass transition temperature 253°, and water absorption 0.27%.

IT 87639-57-4P, Dimethyl 4-bromophthalate

RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent) (preparation and reaction of, for acetylenylphthalic acid, for polyimides)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX

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ANSWER 53 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
L5 ·
     1992:132577 CAPLUS
AN
DN
     116:132577
TI
     Fire resistant hydraulic fluids
     Bohen, Joseph Michael; Tubbs, Paul
IN
PA
     Atochem North America, Inc., USA
SO
     PCT Int. Appl., 118 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 3
     PATENT NO.
                         KIND
                                 DATE
                                             APPLICATION NO.
                                                                     DATE
ΡI
     WO 9116389
                          Al
                                 19911031
                                             WO 1991-US2414
                                                                     19910409
         W: AU, BB, BG, BR, CA, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO;
             SD, SU
         RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE
                          A.
     US 5328627
                                 19940712
                                             US 1990-508744
                                                                     19900412
     AU 9178648
                          Α
                                 19911111
                                             AU 1991-78648
                                                                     19910409
     EP 477360
                          A1
                                 19920401
                                             EP 1991-909444
                                                                     19910409
     EP 477360
                          B1
                                 19950705
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
                                             BR 1991-5711
                                                                     19910409
     BR 9105711
                                 19920804
                          Α
                          Т
                                             JP 1991-509134
                                                                     19910409
     JP 05501131
                                 19930304
PRAI US 1990-508744
                          Α
                                 19900412
     US 1988-258267
                          B2 -
                                 19881014
                                 19910409
     WO 1991-US2414
                          Α
     The title fluid composition contains ≥1 ester of a halogen-substituted
AB
     aromatic acid (e.g., halophthalate ester) and \geq 1 shear-stable polymers
     in hydraulic fluids selected from mineral oils, poly-\alpha-olefins,
     cycloaliphs., alkylated aroms., esters of dibasic acids, silicones,
     silicate esters, polyol ester, polyglycol esters, phosphate esters, and
     other organohalides.
     111043-72-2
IT
     RL: USES (Uses)
        (in fire resistant hydraulic fluids)
RN
     111043-72-2 CAPLUS
     1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-ethylhexyl
CN
     2-hydroxypropyl ester (9CI) (CA INDEX NAME)
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L5 ANSWER 54 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1991:558729 CAPLUS

DN 115:158729

TI Preparation of diphenylacetylenes by palladium-catalyzed coupling reaction of bromobenzene with acetylene

IN Bader, Axel; Arlt, Dieter

PA Bayer A.-G., Germany

SO Ger. Offen., 9 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3936297	A1	19910502	DE 1989-3936297	19891101
	US 5185454	Α	19930209	US 1990-594265	19901002
	EP 425930	A2	19910508	EP 1990-120077	19901019
	EP 425930	A3	19920708		
	EP 425930	B1	19940928		
	R: BE, CH, DE,	FR, GE	, IT, LI	•	
	JP 03169827	A	19910723	JP 1990-287387	19901026
PRAI	DE 1989-3936297	Α	19891101	·	•

OS CASREACT 115:158729; MARPAT 115:158729

AB A process for the preparation of sym. diaryl acetylenes comprises the treatment of aryl halides in the liquid phase with HC.tplbond.CH in the presence of a Pd catalyst and a base. Thus, HC:tplbond.CH was blown into a mixture containing

4-BrC6H4CO2Et (343.5 g), (Ph3P)2PdCl2 (10.5 g), CuI (10.5 g), Ph3P (63 g), piperidine (600 mL) and MeCN (600 mL) at 80° to give 91% 4-EtO2CC6H4C.tplbond.CC6H6CO2Et-4.

IT 87639-57-4, Dimethyl 4-bromo-1,2-benzenedicarboxylate

RL: RCT (Reactant); RACT (Reactant or reagent)

(coupling reaction of, with acetylene, palladium-catalyzed)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 55 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN AN 1990:552043 CAPLUS

DN 113:152043

TI The process for the preparation of 3,3',4,4'-biphenyltetracarboxylic acid and its derivatives

IN Ding, Mengxian; Wang, Xugiang; Yang, Zhengua; Zhang, Jing

PA Changchun Institute of Applied Chemistry, Peop. Rep. China

SO Eur. Pat. Appl., 7 pp. CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

. GI

PAIN.	CIVI I				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI '	EP 363922	A2	19900418	EP 1989-118880	19891011
	EP 363922	A3	19920102		
	EP 363922	B1	19960410		
•	R: AT, BE, CH,	DE, ES	, FR, GB, GR	, IT, LI, LU, NL, SE	
	CN 1041754	A	19900502	CN 1988-107107	19881011
	CN 1021439	В	19930630		
	US 5081281	A	19920114	US 1989-418059	19891006
	CA 2000426	A1	19900411	CA 1989-2000426	19891011
	JP 03068539	A	19910325	JP 1989-270547	19891011
	AT 136537	T	19960415	AT 1989-118880	19891011
PRAI	CN 1988-107107	A ·	19881011		
os	MARPAT 113:152043			•	

AB The title compds. (I; R = C1-6 alkyl), useful as materials for high-performance polyimides and curing agents for epoxy resins (no data), are prepd,. AcNMe2 was added to a mixture of di-Me 4-chlorophthalate, anhydrous NaBr, Zn powder, and (Ph3P)2NiCl2 (prepn.given) under N and the solution was heated at 60° to give 83% I (R = Me). Also prepared were 2 addnl. I (R - Bu, H). Also used catalyst was (Et3P)2NiCl2.

IT 87639-57-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (coupling of)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 56 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1990:518220 CAPLUS

DN 113:118220

TI Fire-resistant hydraulic fluids

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Bohen, Joseph Michael
IN
PA
     Pennwalt Corp., USA
SO
     Eur. Pat. Appl., 56 pp.
     CODEN: EPXXDW
DT
     Patent
LA
     English
FAN.CNT 3
                                DATE
     PATENT NO.
                         KIND
                                            APPLICATION NO.
                                                                    DATE
     _____
                         _ _ _ _
                                            -----
                                -----
                          A2
                                19900418
                                            EP 1989-116540
                                                                    19890907
PΙ
     EP 363647
     EP 363647
                          A3
                                19900725
     EP 363647
                          B1
                                19931215
         R: BE, DE, ES, FR, GB, IT, NL, SE
                                            CA 1989-611070
                          С
                                                                    19890912
                                19951003
     CA 1337191
                                19900426
                                            AU 1989-41415
                                                                    19890914
     AU 8941415
                          Α
     JP 02209996
                          Α
                                19900821
                                            JP 1989-264072
                                                                    19891012
     DD 299824
                          A5
                                19920507
                                            DD 1989-333592
                                                                    19891012
                          Α
                                                                    19891013
     DK 8905089
                                1990,0417
                                            DK 1989-5089
     BR 8905219
                          Α
                                19900515
                                            BR 1989-5219
                                                                    19891013
                          Α
PRAI US 1988-258267
                                19881014
     Fire-resistant hydraulic fluid compns. comprise (1) ≥1
     polyhaloarom. acid esters alone or in combination with (2) ≥1
     hydraulic fluids independently selected from mineral oil,
     poly-\alpha-olefins, alkylated aroms., cycloaliphs., esters of dibasic
     acids, polyol esters, polyglycols, silicones, silicate esters, phosphate
     esters, and halogenated compns. other than (1). An example of the ester
     is dioctyl tetrabromophthalate.
IT
     111043-72-2
     RL: USES (Uses)
        (hydraulic fluids containing, fire-resistant)
RN
     111043-72-2 CAPLUS
     1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-ethylhexyl
CN
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2-hydroxypropyl ester (9CI) (CA INDEX NAME)

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L5
     ANSWER 57 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
AN
     1989:596080 CAPLUS
DN
     111:196080
     Tetrahalophthalate esters as flame retardants for certain resins
ΤI
IN
     Bohen, Joseph Michael; Lovenguth, Ronald Francis
PA
     Pennwalt Corp., USA
SO
     PCT Int. Appl., 85 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 4
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                   DATE
                                            _____
                                                                   -----
     ------
PΙ
     WO 8903854
                         A1
                                19890505
                                            WO 1988-US3839
                                                                   19881028
         W: AU, BB, BG, BR, DK, FI, HU, JP, KP, KR, LK, MC, MG, MW, NO, RO,
             SD, SU, US
         RW: AT, BE, BJ, CF, CG, CH, CM, DE, FR, GA, GB, IT, LU, ML, MR, NL,
             SE, SN, TD, TG
     US 4762861
                          Δ
                                19880809
                                            US 1987-115211
                                                                   19871030
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	US	4938894	A	19900703	US	1987-115688		19871	030
	US	4912158	A	19900327	US	1988-173344		19880	325
	US	4923917	A	19900508	US	1988-173691		19880	325
	US	4954542	A	19900904	US	1988-173343		19880	325
•	ΑU	8927854	A	19890523	AU	1989-27854	•	19881	028
	ΑU	626532	B2	19920806					
	BR	8807274	Α	19891031	BR	1988-7274		19881	028
	JР	02502026	T	19900705	JP	1988-509179		19881	028
	DD	290203	A5	19910523	DD	1988-321372		19881	102
	IL	88294	A	19920621	IL	1988-88294		19881	104
	NO	8902684	Α	19890628	NO	1989-2684		19890	628
	DK	8903235	Α	19890629	DK	1989-3235		19890	629
	FI	8903189	Α	19890629	FI	1989-3189		19890	629
	US	5086098	A	19920204	US	1990-622122		19901	203
PRAI	US	1987-115211	A2	19871030					
	US	1987-115688	A2	19871030		•		·	
	US	1988-173343	A2	19880325					
	US	1988-173344	A2	19880325					
	US	1988-173691	À2	19880325					
	US	1988-244421	A2	19880916					
	WO	1988-US3839	\mathbf{A}^{\cdot}	19881028					
	US	1989-322035	B1	19890310					
AB	Tet	rahalophthalate	esters	are used as	flan	ne retardants	for a	resin	such

Tetrahalophthalate esters are used as flame retardants for a resin such as ABS polymer, polystyrene, polycarbonate, poly(butylene terephthalate), maleic anhydride-styrene copolymer, and (substituted) polyolefin. The resin composition containing a tetrahalophthalate ester shows improved flow characteristics. A composition of Cyclolac T (I) (ABS polymer) 100, 1,2-bis(2,4,6-tribromophenoxy)ethane 11, dioctyl tetrabromophthalate 17, and Sb3O3 4 parts was injection molded at 230° to give test specimens showing flame resistance UL-94 (0.125 in) rating V-0, whereas test specimens of I alone failed the test.

IT 111043-72-2

> RL: USES (Uses) (fireproofing agent, for polymers)

RN 111043-72-2 CAPLUS

CN · 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-ethylhexyl 2-hydroxypropyl ester (9CI) (CA INDEX NAME)

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COPYRIGHT 2007 ACS on STN
L5
     ANSWER 58 OF 79 CAPLUS
AN
     1989:182845 CAPLUS
DN
     110:182845
     Silver halide photographic material containing fluorine-containing
TI
     inhibitor
IN
     Haraga, Hideaki; Ezaki, Atsuo; Iwamuro, Masao
PA
     Konica Co., Japan
     Jpn. Kokai Tokkyo Koho, 22 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LΑ
     Japanese
```

FAN.CNT 1 DATE PATENT NO. KIND DATE APPLICATION NO. PΙ 19880616 JP 1986-292964 19861208 JP 63144351 Α

PRAI JP 1986-292964

19861208

MARPAT 110:182845

At least one of photosensitive Ag halide emulsion layers contains a compound (e.g. scavenger) which is reacted with an oxidized color developer and which gives no image d., and ≥ 1 of hydrophilic layers contains (F) mAr(Y) n or (F) m(Y) nArXAr(F) p(Y') q [Ar = benzene ring or naphthalenering (containing quinone); Y, Y' = substituent; X = divalent connecting group; m, p = 1-5; n, q = 1-3; $m + n \le 8$; $p + q \le 8$]. The photog. material shows improved storage stability and prevented fogging. The photog. material provides excellent graininess and storage stability for the presence of scavengers.

IT 112056-11-8

RL: TEM (Technical or engineered material use); USES (Uses) (photog. fog inhibitor, hydrophilic layer containing)

RN112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 59 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

1989:144852 CAPLUS AN

DN 110:144852

TI Silver halide photographic material containing fluorine-containing inhibitor ·

Suzuki, Masatoyo; Ezaki, Atsuo; Iwamuro, Masao IN

Konica Co., Japan PA

Jpn. Kokai Tokkyo Koho, 18 pp. SO CODEN: JKXXAF

DT Patent

Japanese LA

FAN. CNT 1

1111.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
ΡI	JP 63199348	Α	19880817	JP 1987-32993	19870216	
PRAI	JP 1987-32993		19870216			

OS MARPAT 110:144852

In the title photog. material comprising photog. constitutional layer AΒ having ≥1 Ag halide emulsion layer, ≥1 Ag halide emulsion layer contains core/shell-type AgBr emulsion, and the Ag halide emulsion layer and/or other photog. constitutional layer contains a fog inhibitor from Ar(F)m(Y)n or (F)m(Y)nArXAr(F)p(Y1)q [Ar = benzene or naphthalene ring (including quinone types); Y, Y1 = substituent to benzene or naphthalene ring; X = divalent connecting group; m, p = 1-5; n, q; 1-3; m $+ n \le 8$; $p + q \le 8$]. This photog. material shows excellent sensitivity and storage stability.

IT 112056-11-8

> RL: TEM (Technical or engineered material use); USES (Uses) (photog. fog inhibitor)

112056-11-8 CAPLUS RN

1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX CN NAME)

L5 ANSWER 60 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1989:125222 CAPLUS

DN 110:125222

TI High-sensitivity long shelf-life color photographic material

IN Nagai, Kenji; Ezaki, Atsuo; Iwamuro, Masao

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI JP 63143547	A	19880615	JP 1986-291180	19861205	
DRAT .TD 1986-291180		19861205			

AB A color photog. material contains in ≥ 1 Ag halide emulsion layers a pyrazolotriazole-type magnetic coupler and, in the same or adjacent layer, ≥ 1 [(F)m(Y)nAr]kXk-1 [Ar = benzene or naphthalene ring including quinone forms; F = fluorine; Y = substituent on benzene or naphthalene ring; k = 1, 2; m = 1-5; n = 1-3; m + n ≤ 8 ; X = linking group between Ar when k = 2; when k = 2, Y, m, n may be the same or different]. The increase in fog and decrease in sensitivity owing to the use of the above coupler is suppressed by the above additive.

IT 112056-11-8

RL: TEM (Technical or engineered material use); USES (Uses) (photog. fog inhibitor, high sensitivity color films containing)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 61 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1989:76713 CAPLUS

DN 110:76713

TI Tetrahalophthalate esters as flame retardants for polystyrene resins

IN Bohen, Joseph M.; Lovenguth, Ronald F.

PA Pennwalt Corp., USA

SO U.S., 18 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 4

	PATENT NO.				KIND DATE			APPLICATION NO.				DATE							
PI	US 4762861				Δ.		19880809		US 1987-115211			19871030							
	US	4923	916			A			0508		US	198	88-2	2210	53			9880	719
								1989											
								, FI,											
,		., .		SU,		210,		,,	,	0.,		•	,	,	,	,	,	,	,
		RW.				CF.	CG	, CH,	CM.	DE.	44	₹. (GA.	GB.	IT.	LU.	ML.	MR.	NL.
		2011	-		TD,	-	•	, 0,	· · · ·	,		•,	,	,	,	/	,	,	,
	ΔIJ	8927			•			1989	0523		ΑIJ	198	89-2	2785	4		1:	9881	028
		6265				B2		1992							-				
	_	8807				A					BR	198	88-1	7274			1	9881	028 -
		3390				A1									75 .			9881	
				BE.	CH.	DE.	FR.	, GB,	IT.	LI.									
	JР	0250								•	JΡ	198	88-5	5091	79		1:	9881	028
	HU	5472	0			A2		1991										9881	028
		2018				A6		1991	0316		ES	198	88-3	3328			1:	9881	031
	CA	1337	310			C		1995	1010		CA	198	88-9	5817	42		1:	9881	031
		8902						1989	0628									9890	628
	DK	8903	235			A		1989	0629		DK	198	89-3	3235			1:	9890	629
	FI	8903	189			Α		1989	0629		FI	198	89-3	3189			1:	9890	629
		5086							0204		US	199	90-6	5221	22		1:	9901	203
	AU	9221	263			. A		1992	1029		ΑU	199	92-2	2126	3		. 19	9920	825
PRAI	US	1987	-115	211		A3		1987	1030					•					
	US	1987	-115	688		A2		1987	1030										
	US	1988	-173	343		A2		1988	0325										
	US	1988	-173	344		A2		1988	0325										
		1988				A2		1988											
	US	1988	-244	421		A2		1988	0916										
								1988											
		1989				B1													
AB	A f	flame	-reta	arda	nt c	ompo	sit:	ion c	ompr:	ises	pc	olys	sty	rene	and	a t	etral	halo	phtha

AB A flame-retardant composition comprises polystyrene and a tetrahalophthalate. Thus, injection test specimens made from a composition containing Polysar 525 (high-impact polystyrene) 81.5, decabromodiphenyl oxide 9, dioctyl tetrabromophthalate 5.5, and Sb2O3 4 parts showed fire resistance UL-94 rating V-0.

IT 111043-72-2

RL: USES (Uses)

(flame retardants, for polystyrene)

RN 111043-72-2 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-ethylhexyl 2-hydroxypropyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 62 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1989:57311 CAPLUS

DN 110:57311

TI Preparation of trifluoromercaptophthalic acid as a synthetic intermediate

IN Hiromoto, Kazuhiko; Otsubo, Akihiro

PA Showa Denko K. K., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 63162669	A	19880706	JP 1986-308761	19861226
PRAI	JP 1986-308761		19861226		

OS CASREACT 110:57311

AB Title compound is prepared by treatment of tetrafluorophthalic acid with ≥1 compds. chosen from alkali metal, alkaline earth metal, or ammonium hydrosulfide in polar aprotic solvents. Refluxing 3,4,5,6-tetrafluorophthalic acid with NaSH hydrate in pyridine for 2 h gave 80% 3,5,6-trifluoro-4-mercaptophthalic acid.

IT 112056-11-8P, 3,5,6-Trifluoro-4-mercaptophthalic acid RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, by sulfuration of tetrafluorophthalic acid)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 63 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:591041 CAPLUS

DN 109:191041

TI Manufacture of 3,3',4,4'-biphenyltetracarboxylic acid by hydrolysis and dimerization of 4-halophthalate esters

IN Shoji, Fusaji; Kataoka, Fumio

PA Hitachi, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN. CNT 1

FAN.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 63072649	A	19880402	JP 1986-215745	19860916	
	JP 06062497	В	19940817			
דגסס	TD 1096-215745		19860916	•		

The title acid (I) is manufactured by heating aqueous solns. containing 1 mol 4-halophthalic acid esters and ≥2 mol bases, supported noble metal catalysts, and formate salts. Thus, 26.6 g mixture of di-Me 4-bromophthalate 90, di-Me 3-bromophthalate 0.3, and di-Me phthalate 9.7 mol%, 16.8 g KOH, and 70 g H2O were placed in a reactor, mixed with 2.5 g Pd(5%)/C catalyst, and heated to hydrolyze the esters at 90-110° for .apprx.1 h. Then 13.6 g HCO2Na was added in portions, and the mixture was heated with stirring for 5 h to cause debromodimerization, then acidified with HCl to give 13.1 g I.

IT 87639-57-4, 4-Bromophthalic acid dimethyl ester RL: USES (Uses)

(alkaline hydrolysis and debromodimerization of, in manufacture of biphenyltetracarboxylic acid)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 64 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN . 1988:519748 CAPLUS

DN 109:119748

TI Thermal fog-suppressed photothermographic film

IN Kono, Junichi; Sakamoto, Hidekazu

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 20 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 63058438	A	19880314	JP 1986-204468	19860829	
	JP 06056477	В	19940727			
PRAI	JP 1986-204468		19860829	•		

Claimed is a photothermog. Ag halide photosensitive element containing ≥ 1 fog-inhibitors selected from FmALn and FmA(L)nXA(F)jMi (A = benzene or naphthalene ring including quinone forms; L, M = ring substituents, ≥ 1 of which are SH or salts thereof; X = divalent group m, j = 1-5; n, i = 1-3; m + n ≤ 8 ; i + j ≤ 8).

IT 112056-11-8 RL: USES (Uses)

(photothermog. fog inhibitor)

RN 112056-11-8 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 65 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1988:21511 CAPLUS

DN 108:21511

TI 3,5,6-Trifluoro-4-mercaptophthalic acid as a material for agrochemicals and pharmaceuticals

IN Ishikawa, Ryuichi; Kaieda, Osamu; Takatani, Norio

PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	JP 62185066	A	19870813	JP 1986-26885	19860212	
PRAI GI	JP 05019546 JP 1986-26885	В	19930317 19860212			

AB The title acid (I), useful as an epoxy hardener, a functional macromol. material, photog. materials (no data), and starting materials for agrochems. and pharmaceuticals, is prepared An aqueous solution of NaSH was added

to a solution of tetrafluorophthalic acid in aqueous NaOH at 20° under N and heated 12 h at 90° to give 78.8% I.

RN 112056-11-8 CAPLUS

Ι

CN 1,2-Benzenedicarboxylic acid, 3,4,6-trifluoro-5-mercapto- (9CI) (CA INDEX NAME)

L5 ANSWER 66 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1987:577182 CAPLUS

DN 107:177182

TI Tetrahalophthalate esters as flame retardants for polyphenylene ether resins

IN Lovenguth, Ronald Francis

PA Pennwalt Corp., USA

SO PCT Int. Appl., 57 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.	CNT 1 PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	WO 8701713	 A1	19870326	WO 1986-US1771	19860827
	W: AU, BR, JP				
	RW: AT, BE, CH,	•	, GB, IT,		19860815
	US 4764550	A	19880816	US 1986-896896	
	AU 8663376	A	19870407	AU 1986-63376	19860827
	AU 594375	B2	19900308		
	EP 235266	A1	19870909	EP 1986-905583	19860827

	EΡ	2352	66			В1	1993	0303						
		R:	AT,	BE,	CH,	DE,	FR, GB,	IT,	LI, LU	J, NL	, SE			
	BR	8606	871			Α	1987	1103	BR	1986	-6871		198608	327
	JP	6350	0947			T	1988	0407	JP	1986	-5048	64	198608	327
	JP	0707	2248			В	1995	0802						
	AT	8626	9			T	1993	0315	AT	1986	-9055	83	198608	327
	CA	1329	666			С	1994	0517	CA	1986	-5183	00	198609	}16
PRAI	US	1985	-7770	0,43		A	1985	0917						
	US	1986	-8968	396		A	1986	0815						
	ΕP	1986	-9055	583		A	1986	0827						
	WO	1986	-US1	771		A	1986	0827						
AB	Pol	уоху	pheny	/len	es c	onta	ining ≥1	0% vi	invlaro	om. re	esins	and		

AB Polyoxyphenylenes containing ≥10% vinylarom. resins and tetrahalophthalate ester flame retardants have good hydrolytic and dimensional stability, dielec. properties, and fire resistance. A mixture of 92 parts 50:50 polyoxyphenylene-high-impact polystyrene blend and 8 parts reaction products of tetrabromophthalic anhydride 3.0, Carbowax 350 3.0, and propylene oxide 6.0 mol gave a 1/8-in. sheet with limiting O index 29, vs 26 for the polymer blend.

IT 111043-72-2

RL: USES (Uses)

(fireproofing agents, for polyoxyphenylenes)

RN 111043-72-2 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-ethylhexyl 2-hydroxypropyl ester (9CI) (CA INDEX NAME)

L5 ANSWER 67 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1984:6227 CAPLUS

DN 100:6227

TI A convenient synthesis of 4-ethynylphthalic anhydride via 2-methyl-3-butyn-2-ol

AU Sabourin, Edward T.; Onopchenko, Anatoli

CS Chem. Miner. Div., Gulf Res. and Dev. Co., Pittsburgh, PA, 15230, USA

SO Journal of Organic Chemistry (1983), 48(25), 5135-8 CODEN: JOCEAH; ISSN: 0022-3263

DT Journal

LA English

OS CASREACT 100:6227

AB The palladium(0) complex-catalyzed reaction of di-Me 4-bromophthalate with 2-methyl-3-butyn-2-ol gave over 95% yield of arylated methylbutynol, which was simultaneously cleaved and saponified with aqueous caustic to produce 4-ethynylphthalic acid (98%), a precursor to the corresponding anhydride.

IT 87639-57-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and substitution reaction with methylbutynol, catalysts for)

RN 87639-57-4 CAPLUS

CN 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) (CA INDEX NAME)

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Br
C-OMe
MeO-C O
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ANSWER 68 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN
L5
AN
     1982:492671 CAPLUS
DN
     97:92671
     Chemical modification of everninomicins
TI
     Ganguly, A. K.; Girijavallabhan, V. M.; Miller, G. H.; Sarre, O. Z.
AU
CS
     Res. Div., Schering-Plough Corp., Bloomfield, NJ, 07003, USA
SO
     Journal of Antibiotics (1982), 35(5), 561-70
     CODEN: JANTAJ; ISSN: 0021-8820
DT
     Journal
LA
     English
OS
     CASREACT 97:92671
     Novel antibiotic everninomicin D is chemical transformed into new biol.
AB
     active derivs. Reactions of a nitro group attached to a tertiary carbon
     center have been investigated. Synthesis and reactions of
     hydroxylaminoeverninomicin D, aminoeverninomicin D and their derivs. have
     been discussed.
IT
     70051-49-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
         (preparation of)
     70051-49-9 CAPLUS
RN
     β-D-Mannopyranoside, O-(R)-4-C-(1-methoxyethyl)-2,3-O-methylene-D-
CN
     lyxopyranosylidene-(1\rightarrow 3-4)-2-0-methyl-\alpha-L-lyxopyranosyl
     O-3-amino-2,3,6-trideoxy-3-C-methyl-4-O-methyl-\alpha-L-ribo-
     hexopyranosyl-(1\rightarrow 3)-0-2,6-dideoxy-4-0-(3,5-dichloro-4-hydroxy-2-
     methoxy-6-methylbenzoyl)-\beta-D-arabino-hexopyranosyl-(1\rightarrow 4)-O-2,6-
     dideoxy-D-ribo-hexopyranosylidene-(1→3-4)-O-2,6-dideoxy-3-C-methyl-
     \beta-D-arabino-hexopyranosyl-(1\rightarrow3)-O-6-deoxy-4-O-methyl-\beta-D-
     galactopyranosyl-(1→4)-2,6-di-O-methyl-, compd. with
     1-deoxy-1-(methylamino)-D-glucitol (1:1) (9CI) (CA INDEX NAME)
     CM
          1
     CRN
          68473-41-6
          C66 H101 Cl2 N O33
     CMF
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PAGE 1-B

CM 2

CRN 6284-40-8 CMF C7 H17 N O5

Absolute stereochemistry.

L5 ANSWER 69 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1981:438669 CAPLUS

DN 95:38669

TI Alkyl-substituted fluorescent compounds, their use and conjugates

IN Khanna, Pyare Lal; Ullman, Edwin Fisher

PA Syva Co., USA

SO Eur. Pat. Appl., 60 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.	CNT 1				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 25912	A1	19810401	EP 1980-105253	19800903
	EP 25912	B1	19860730		
	R: DE, FR, GB,	IT, SE		-	
	US 4351760	Α	19820928	US 1979-73158	19790907
	CA 1159823	A1	19840103	CA 1980-354646	19800619
	JP 56043279	Α	19810421	JP 1980-110158	19800811
	JP 01047471	В	19891013		
	US 4481136	A	19841106	US 1982-399506	19820719
	US 4588697	A	19860513	US 1984-664121	19841023
	US 4774191	A	19880927	US 1986-826177	19860205
	JP 01308485	A	19891213	JP 1989-69142	19890320
	JP 03004596	В	19910123		
PRAI	US 1979-73158	A	19790907	•	
	US 1982-399506	A3	19820719		
	US 1984-664121	A3	19841023		
OS	CASREACT 95.38669	•			

Fluorescent conjugates of fluorescein analogs are described; which have a AB variety of uses, especially in immunoassays. The preparation of the fluorescent

precursors is described. These compds. are 2,7-dialiph.-6-hydroxy-3Hxanthen-3-ones, having at least 2 chloro substituents, with the precursors having a linking group or functionality on a group, either aliphatic or aromatic, bonded to the 2- or 9-position of the xanthene. Thus, 2,7-di(2''-carboxyethyl)-9-(2'-carboxyphenyl)-6-hydroxy-3H-xanthen-3-one was prepared A mixture of 1.1 g of 4-(2'-carboethyl)resorcinol, 0.45 g phthalic anhydride, and 250 mg ZnCl2 was heated in a reaction flask at 160-170° for 0.5 h. The material then was treated with water, filtered, the solid dissolved in 5% NaOH, then acidified and the resultant yellow solid filtered and dried. The product was further purified by thin-layer chromatog.

IT 78246-67-0P

> RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and IgG conjugation to, for fluorescent immunoassay)

RN 78246-67-0 CAPLUS

CN Benzoic acid, 2-[[(carboxymethyl)amino]carbonyl]-3,4,6(or 3,5,6)-trichloro-5(or 4)-(6-hydroxy-2,7-dimethyl-3-oxo-3H-xanthen-9-yl)-(9CI) (CA INDEX NAME)

CM 1.

CRN 78196-42-6 CMF C23 H13 Cl3 O7

CM 2

CRN 56-40-6 CMF C2 H5 N O2

L5 ANSWER 70 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

I

AN 1981:169280 CAPLUS

DN 94:169280

TI Inhibitory activities to rice bacterial leaf blight of N-substituted 3,4,5,6-tetrachlorophthalamic acids and their related compounds

AU Honda, Takeo; Nakagami, Kazuto; Koremura, Mitsunobu; Ishida, Mitsuo; Yamazaki, Toshiharu

CS Cent. Res. Lab., Ube Ind., Ltd., Ube, Japan

SO Nippon Noyaku Gakkaishi (1980), 5(3), 385-91

CODEN: NNGADV; ISSN: 0385-1559

DT Journal

LA Japanese

GI

$$C1$$
 CO_2H CO_2H

Thirty N-phenyl-3,4,5,6-tetrachlorophthalamic acids (I; X = Cl, Et, Me, MeO, or NO2, n = 0-3), N-(1-naphthyl)-3,4,5,6-tetrachlorophthalamic acid (II) [77106-23-1], 4 derivs. of II, and 25 related compds. were tested for the control of rice bacterial leaf blight disease, caused by Xanthomonas oryzae. Some of I (n = 2 or 3), II, and II derivs. were very active, I (Xn = 2,3-dichlorophenyl) (III) [77106-12-8] and II having the highest activities in spray and root applications. Activities of II and III were not exceeded by those of corresponding derivs. of 3,4,5,6-tetrabromo- and 3,4,5,6-tetraiodophthalamic acid or K or Na salts of III.

IT 77106-11-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and rice bacterial leaf blight disease control by)

RN 77106-11-7 CAPLUS

CN Benzoic acid, 2,3,4,5-tetrachloro-6-[[(2,6-dichlorophenyl)amino]carbonyl]-(9CI) (CA INDEX NAME)

L5

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AN
     1979:168928 CAPLUS
DN
     90:168928
     Aminoeverninomicin and derivatives
ΤI
     Ganguly Ashit K.; Girijavallabhan, Viyyoor M.; Sarre, Olga; Reimann, Hans
IN
PA
     Schering A.-G., USA
SO
     U.S., 7 pp.
     CODEN: USXXAM
DT
     Patent
LΑ
     English
FAN.CNT 2
                                             APPLICATION NO.
                                                                     DATE
     PATENT NO.
                         KIND
                                 DATE
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                                                                     19770916
PI
     US 4129720
                         · A
                                 19781212
                                             US 1977-833838
                                             BE 1978-185032
     BE 863802 ·
                         A1
                                 19780809
                                                                     19780209
                         A
                                             FI 1978-420
                                                                    19780209
     FI 7800420
                                 19780815
     NO 7800445
                         Α
                                 19780815
                                             NO 1978-445
                                                                     19780209
     NL 7801522
                          A
                                 19780816
                                             NL 1978-1522
                                                                    19780209
                          A1
                                             FR 1978-3662
                                                                    19780209
     FR 2384791
                                 19781020
     ES 466807
                       A1
                                 19790101
                                             ES 1978-466807
                                                                    19780209
                          Α
                                                                    19780209
     AU 7833139
                                 19790816
                                             AU 1978-33139
                                                                    19780209
     AT 7800904
                          Α
                                 19800115
                                             AT 1978-904
     GB 1589954
                          Α
                                 19810520
                                             GB 1978-5286
                                                                    19780209
     DK 7800617
                          Α
                                 19780815
                                             DK 1978-617
                                                                    19780210
     JP 53103495
                          Α
                                 19780908
                                             JP 1978-14871
                                                                    19780210
     ZA 7800808
                          Α
                                 19790131
                                             ZA 1978-808
                                                                     19780210
                          A2
PRAI US 1977-768124
                                 19770214
     US 1977-833838
                                 19770916
                          Α
                          Α
                                 19780206
     CH 1978-1255
OS
     MARPAT 90:168928
AB
     Aminoeverninomicin B, -everninomicin C, and -everninomicin D and their
     N-acyl, N-acyl-N-hydroxyl, N-alkyl, N,N-dialkyl derivs. (acyl = C1-12
     acyl; alkyl = C1-12 alkyl), and pharmaceutically acceptable salts of these
     compds., useful as bactericides (no data), were prepared Thus, a mixture of
     everninomicin D and N-methylglucamine was hydrogenated in MeOCH2CH2OH over
     Raney Ni to give aminoeverninomicin D N-methylglucamine salt.
IT
     70051-49-9P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (preparation of)
     70051-49-9 CAPLUS
RN
     β-D-Mannopyranoside, O-(R)-4-C-(1-methoxyethyl)-2,3-O-methylene-D-
CN
     lyxopyranosylidene-(1\rightarrow 3-4)-2-0-methyl-\alpha-L-lyxopyranosyl
     O-3-amino-2,3,6-trideoxy-3-C-methyl-4-O-methyl-\alpha-L-ribo-
     hexopyranosyl-(1\rightarrow 3)-0-2,6-dideoxy-4-0-(3,5-dichloro-4-hydroxy-2-
     methoxy-6-methylbenzoyl)-\beta-D-arabino-hexopyranosyl-(1\rightarrow 4)-O-2,6-
     dideoxy-D-ribo-hexopyranosylidene-(1->3-4)-O-2,6-dideoxy-3-C-methyl-
     \beta-D-arabino-hexopyranosyl-(1\rightarrow3)-O-6-deoxy-4-O-methyl-\beta-D-
     galactopyranosyl-(1\rightarrow 4)-2,6-di-O-methyl-, compd. with
     1-deoxy-1-(methylamino)-D-glucitol (1:1) (9CI)
                                                     (CA INDEX NAME)
     .CM
          68473-41-6
     CRN
     CMF
          C66 H101 Cl2 N O33
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PAGE 1-B

CM 2

CRN 6284-40-8 CMF C7 H17 N O5

Absolute stereochemistry.

L5 ANSWER 72 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1979:34992 CAPLUS

DN 90:34992

TI Herbicide composition

PA American Cyanamid Co., USA

SO Neth. Appl., 48 pp.

CODEN: NAXXAN

DT Patent

LA Dutch

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI NL 7700386	A	19780718	NL 1977-386	19770114
PRAI NL 1977-386	Α.	19770114	•	
GI		• .		

$$R \xrightarrow{N \longrightarrow 0} R^{1}$$

Imidazoisoindolediones I (R = H, Me, NO2, Cl, OMe, or SMe; R1 = C1-4 alkyl; R2 = C1-6 alkyl, C3-6 cycloalkyl, C2-4 alkenyl, Ph, halophenyl, or benzyl; or CR1R2 = C3-6 cycloalkyl) showed herbicidal activity against mono- and dicots when applied pre- or postemergence, especially against Cyperus species and perennials, and at low concns. showed plant growth-regulating activity. I are prepared by cyclization of dioxoisoindolineacetamide or N-(carbamoylalkyl)phthalamates. For example, I (R = H; R1 = Me; R2 = [63081-24-3] was highly to totally effect against Convolvulus arvensis, Agropyron repens, Cyperus rotundus, Rubus allegheniensis, Diervilla lonicera, and Rosa multiflora when applied preemergence at 1.1 kg/ha. This compound was prepared by reaction of Me iso-Pr ketone [563-80-4] with NH4Cl and NaCN in 28% NH4OH with cooling, reaction of the resulting 2-amino-2,3-dimethylbutyronitrile [13893-53-3] with phthalic anhydride [85-44-9], cyclization of the phthalamic acid derivative [63081-72-1] to the phthalimidonitrile derivative [63081-94-7] in refluxing CH2Cl2, conversion to α -isopropyl- α -methyl-1,3-dioxo-2-isoindolineacetamide [63081-23-2] with H2SO4, and cyclization by heating under basic conditions.

IT 63081-89-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

Ι

RN 63081-89-0 CAPLUS

CN Benzoic acid, 5-chloro-2-[[(1-cyano-1,2-dimethylpropyl)amino]carbonyl](9CI) (CA INDEX NAME)

L5 ANSWER 73 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1977:568034 CAPLUS

DN 87:168034

TI Dihydroimidazoisoindolediones as herbicidal agents

IN Los, Marinus

PA American Cyanamid Co., USA

SO U.S., 16 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

			,	
PI US 4041045	. A	19770809	US 1975-631356	19751112
US 4110103	A	19780829	US 1977-781234	19770325
PRAI US 1975-631356	A3	19751112		
GI				

$$R^{3}$$
 R^{2}
 R^{3}
 Dihydroimidazoisoindolediones I (R = Me, CHMe2; R1 = Me, Et, Pr, CHMe2, CHEt2, cyclopropyl, CHMeEt, 4-ClC6H4, CH2Ph, CH2CHMe2; RR1 = (CH2)4,5, CHMe(CH2)4; R2 = H; R3 = H, 6-Me, 9-Me, 7-Me, 8-Me, 7-Cl, 8-Cl, 6-NO2, 9-NO2, 7-OMe, 8-OMe, 6-Cl, 9-Cl, 6-SMe, 9-SMe) were prepared by NaBH4 reduction of II. I (R = Me, R1 = CHMe2, R2 = NH2, NMe2, OH, OMe, SMe, NHMe, R3 = H) were obtained by treating II with R2H. II were prepared by treating RR1CO with NaCN and NH4OH, treating RR1C(CN)NH2 with phthalic anhydrides, dehydrating phthalamic acids III, hydrolyzing the nitriles IV (R4 = CN), and cyclizing IV (R4 = CONH2). I (R = Me, R1 = CHMe2, R2 = R3 = H) at 0.56 kg/hectare gave complete kill of Sesbania exaltata, Brassica kaber, etc.

IV

IT 63081-89-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 63081-89-0 CAPLUS

CONHCRR1CN

CN Benzoic acid, 5-chloro-2-[[(1-cyano-1,2-dimethylpropyl)amino]carbonyl]- (9CI) (CA INDEX NAME)

L5 ANSWER 74 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1977:423285 CAPLUS

DN 87:23285

TI Imidazoisoindolediones used as herbicidal agents

IN Los, Marinus

PA American Cyanamid Co., USA

SO U.S., 18 pp.

CODEN: USXXAM

DT Patent

LA English

FAN: CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4017510	A	19770412	US 1975-631357	19751112
	GB 1566523	Α	19800430	GB 1977-1035	19770111
	US 4125727	Α	19781114	US 1977-818799	19770725
PRAI	US 1975-631357	A	19751112	•	
	US 1976-733635	A3	19761018		
GI					

AB Imidazoindolediones I (R = Me, R1 = CHMe2, cyclopropyl, Me, R2 = H, 6-Cl, 9-Cl) and related compds. (37 compds) were prepared Thus, Me2CHCMe(NH2)CN was treated with phthalic anhydride, 2-HO2CC6H4CONHCMe(CN)CHMe2 cyclized, the phthalimide II (R3 = CN) hydrolyzed, II (R3 = CONH2) cyclized in PhMe to give I (R = Me, R1 = CHMe2, R2 = H), which at 4.5 kg/ha postemergence gave complete control of, e.g., mustard and pigweed.

IT 63081-89-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and cyclization of)

RN 63081-89-0 CAPLUS

CN Benzoic acid, 5-chloro-2-[[(1-cyano-1,2-dimethylpropyl)amino]carbonyl]-(9CI) (CA INDEX NAME)

L5 ANSWER 75 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1971:125851 CAPLUS

DN 74:125851

TI Biocidal organometallic tetrahalophthalates

IN Wirth, Hermann O.; Friedrich, Hans H.; Mras, Veronika

PA Deutsche Advance Produktion G.m.b.H.

SO Ger. Offen., 31 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 2 PATENT NO. KIND DATE APPLICATION NO. DATE DE 1937307 Α 19710211 DE 1969-1937307 19690723 19770127 DE 1937307 **B2** DE 1937307 C3 19770908 NL 7010714 Α 19710126 NL 1970-10714 19700720 ZA 7004947 Α 19710527 ZA 1970-4947 19700720 Α 19700720 US 3658860 19720425 US 1970-56746 Α GB 1271917 19720426 GB 1970-1271917 19700721 FR 1970-27002 FR 2059549 A1 19710604 19700722

	FR 2059549	A5	19710604			
	SE 372021	B	19741209	SE	1970-10129	19700722
	DK 133336	В	19760503	DK	1970-3806	19700722
	DK 133336	C	19781113			
	NO 134339	В	19760614	ИО	1970-2873	19700722
PRAI	DE 1969-1937307	A '	19690723			
GI	For diagram(s), see					
AB	The biocidal title of	ompds.	(I), where	X =	Cl, Br, or I, R	= trialkyl (or
	triphenyl)tip or -le	rg be	– Halkvl	or	trialkyl (or trir	henvl) tin or

The biocidal title compds. (I), where X = Cl, Br, or I, R = trialkyl (or triphenyl)tin or -lead, R1 = H, alkyl, or trialkyl(or triphenyl) tin or -lead, as e.g., antifouling agents in paints for buildings or ships, and in the preservation of wool, silk, cotton, wood, etc., were prepared Thus, refluxing 28.6 parts tetrachlorophthalic anhydride and 59.6 parts (Bu3Sn)2O in C6H6 3 hr gave 96% I (X = Cl, R = R1 = SnBu3). Among 29 compds. similarly prepared were I (R, R1, and X given): Me, SnBu3, Cl; CH2CH2Br, PbBu3, Cl; 2-octyldodecyl, SnPh3, Cl; PbBu3, PbBu3, Br; PbPh3, H, I.

IT 31430-90-7P

RN 31430-90-7 CAPLUS

CN Plumbane, [(tetrachlorophthaloyl)dioxy]bis[tributyl- (8CI) (CA INDEX NAME)

L5 ANSWER 76 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1967:85589 CAPLUS

DN 66:85589

TI Preparation of some 4- or 5-substituted 2-tert-butyl-benzoic acids

AU Baas, J. M. A.; Wepster, B. M.

CS Tech. Univ., Delft, Neth.

SO Recueil des Travaux Chimiques des Pays-Bas (1967), 86(1), 69-79 CODEN: RTCPA3; ISSN: 0165-0513

DT Journal

LA English

GI For diagram(s), see printed CA Issue.

AB A large number of 2,4,5-XYZC6H2Bu-tert (I) was prepared A mixture of 52 g. I (X

= Br, Y = CO2H, Z = H) was refluxed with 5 ml. H2SO4 and 100 ml. MeOH to give I (X = Br, Y = CO2Me, Z = H) (II), b0.7 113-15°, n25D 1.5456. MeMgI, prepared from 49 g. MeI and 8.4 g. Mg in 75 ml. Et20, was treated dropwise with 49 g. II in 50 ml. Et2O. The mixture was refluxed 1 hr. and treated with 40 g. NH4Cl in 250 ml. H2O to give 49% I (X = Br, Y = CMe2OH, Z = H) (III), m. 71.5-72° (petroleum ether). III (37 g.) in 50 ml. Ac20 was refluxed 3 hrs. to give upon distillation in vacuo 83% of a fraction b1.4 115-33° which contained .apprx.80% I (X = Br, Y = CH2:CMe, Z =H) (IV). The IV-containing fraction in 40 ml. EtOH was reduced with H in the presence of Adams catalyst to give 71% I (X = Br, Y = iso-Pr, Z = H) (V), bl.1 101-3°, n25D 1.5342. V (7.65 g.) in 50 ml. Et2O was refluxed with 0.72 g. Mg and small amts. of iodine and MeI for 4 hrs. The solution was poured into 200 g. solid CO2 in 100 ml. Et2O and the mixture acidified with 2N HCl. The Et2O layer was extracted with 100 ml. 2N KOH and acidified to give 40% I (X = CO2H, Y = iso-Pr, Z = H) (VI), m. $99.5-100^{\circ}$ (MeOH). I (X = Br, Y = NH2, Z = H) (VII) (CA 65, 5383f) (25.0 g.) in 120 ml. H2SO4 and 250 ml. water was diazotized with 7.6 g. NaNO2 in 50 ml.

water at -5°. The mixture was left overnight, heated 1 hr. at $40-50^{\circ}$ and steam-distilled and treated as usual to give 52% I (X = Br, Y = OH, Z = H) (VIII), m. 44-5.5°. VIII (13 g.) and 2.5 g. NaOH in 50 ml. water was treated dropwise with 10 g. Me2SO4 at 0° to give 74% I (X = Br, Y = MeO, Z = H) (IX), $b1.5 \ 103-4^{\circ}$, $n25D \ 1.5459$. (X = CO2H, Y = MeO, Z = H) (X), m. 107-8°, was prepared from IX in 42% yield similarly to VI. Deamination of VII (Klouwen and Boelens, CA 55, 27186a) gave I (X = Br, Y = H, Z = H) (XI). I (X = CO2H, Y = H, Z = H)H) (XII), m. 68-8.5°, was prepared from XI in 62% yield similarly to X and VI. Nitration of XII (Crawford and Stewart, CA 48, 6398b) gave I (X = CO2H, Y = NO2, Z = H) (XIII), m. $172-3.5^{\circ}$. XIII (0.99 g.) in 25 ml. 2N Na2CO3.10H2O was hydrogenated in the presence of 0.5 g. Ni to give 62% I (X = CO2H, Y = NH2, Z = H) (XIV) m. 185°. XIV (5.6 g.) in 75 ml. 30% HBr was treated with 15 g. CuBr. The mixture was diazotized with 2.5 g. NaNO2 in 10 ml. water at -7°, stirred 1 hr., heated to 40°, and steam distilled to give 47% I (X = CO2H, Y = Br, Z = H) (XV), m. 123-4.5°. A mixture of 1 g. XIII, 1 g. NaOAc, 1.1 g. Norit, 4 ml. 40% H2CO, 35 ml. MeOH, and 2 ml. PdCl2 solution (prepared by boiling 0.25 g. PdCl2 in 5 ml. 2N HCl) was hydrogenated at 50 atmospheric to give 40% I (X = CO2H, Y = MNe2, Z = H) (XVI), decomposed 134°. I (X = CO2H, Y = Cl, [']Z = H), m. 109.5-10.5°, was obtained from XIV in 41% yield, similarly to XV. I (X = Br, Y = tert-Bu, Z = H) (1.06 g.) in 5 ml. Et20 was treated with 2.5 g. 20% BuLi in C7H16 at 0°. The mixture was kept 1 hr., poured on solid CO2, and treated with 100 ml. 2N HCl to give 57% I (X = CO2H, Y = tert-Bu, Z = H), m. 123.5-4.5°. I (X = NH2, Y = H, Z = NO2) (56.5 g.) in 175 ml. AcOH was treated with 75 ml. 30% H2SO4. The mixture was diazotized with 23 g. NaNO2 at -5°, stirred 5 hrs., and filtered. The filtrate was added dropwise to stirred 92 g. KCN and 64 g. CuCN in 880 ml. H2O at 75° to give after steam-distillation 73% I (X = CN, Y = H, Z = NO2) (XVII), m. 122-3° (petroleum ether-MePh). XVII (42 g.) in 70 ml. H2SO4 was heated for 6 hrs. at 90°, kept overnight, treated with 290 ml. AcOH, 290 ml. water, and 28 g. NaNO2 in 280 ml. water to give 83% I (X = CO2H, Y = H, Z = NO2) (XVIII) m. 138.5-9.5°. XVIII (34 g.) in 150 ml. EtOH was hydrogenated at 50° using 3 g. Raney Ni to give 73% I (X = CO2H, Y = H, Z = NH2) (XIX), m. 175°. XIX (3 q.) in 100 ml. 30% HBr was treated dropwise with 1.6 q. NaNO2 in 10 ml. H2O at -10°. The mixture was stirred 30 min., filtered, and the filtrate treated with 15 g. CuBr and 20 g. KBr in 100 ml. H2O to give after heating 53% I (X = CO2H, Y = H, Z = Br) (XX), m. 117-18°. I (X = CO2H, Y = H, Z = NMe2), m. 165°, was prepared in 57% yield from XVIII similarly to XVI. I (X = CO2H, Y = H, Z = Cl), m. 120.5-1.5°, was prepared from XIX in 59% yield, similarly to XX. I (X = Br, Y = H, Z = NH2)-HCl (20.5 g.) in 180 ml. 6N H2SO4 was diazotized with 6 g. NaNO2 in 20 ml. water at 0°. The mixture was filtered and the filtrate added to a boiling mixture of 200 ml. water and 50 ml. H2SO4 and distilled The distillate was processed as usual to give 35% crude I (X = Br, Y = H, Z = OH) (XXI). The crude XXI (6 g.) in 25 ml. 1.2N KOH was treated dropwise with 5 g. Me2SO4 at 0°. The mixture was refluxed 1 hr., made alkaline, and extracted with Et2O to give 58% I (X = Br, Y = H, Z =

MeO)

(XXII), b6 124-8°, n25D 1.5469. A Grignard solution prepared from 3 g. XXII and 0.3 g. Mg was treated as for the preparation of VI to give 41% I (X = CO2H, Y = H, Z = MeO), m. 113-14°. Oxidation of I (X = Me, Y = H, Z = tert-Bu) (4.8 g.) in 18 ml. pyridine, 9 ml. water, and 2.2 g. KOH with 10 g. KMnO4 at 95° for 3 hrs. gave 38% I (X = CO2H, Y = H, Z = tert-Bu), m. 164-5° (MeOH). Dinitration of I (X = H, Y = tert-Bu, Z = H) gave I (X = NO2, Y = tert-Bu, Z = NO2) (XXIII), m. 193-4° (iso-PrOH) (Legge, CA 42, 132h). XXIII (11.8 g.) in 425 ml. MeOH was treated with 10.5 g. Na2S in water and 1.5 g. S. The mixture was refluxed 5 hrs., kept overnight, the MeOH distilled, and the residue extracted with Et2O. The Et2O extract was dried and treated with gaseous HCl. The precipitate was filtered off and rubbed with concentrated NH4OH to give 51% I (X = NH2, Y = tert-Bu, Z = NO2) (XXIV), m. 128-8.5° (petroleum ether-C6H6). I (X = CN, Y = tert-Bu, Z = NO2) (XXV), m. 131-2.5°, was obtained from XXIV in 46% yield similarly to XVII. I (X = CO2H, Y = tert-Bu, Z = NO2),

m. 187.5-8.5°, was obtained in 72% yield from XXV, similarly to XVIII.

IT 14034-94-7P

RN 14034-94-7 CAPLUS

CN Benzoic acid, 2-tert-butyl-5-chloro- (8CI) (CA INDEX NAME)

L5 ANSWER 77 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1964:418036 CAPLUS

DN 61:18036

OREF 61:3029e-g

TI 2-Methoxy-3-chloro-6-methylbenzoic acid and derivatives

IN Richter, Sidney B.

PA Velsicol Chemical Corp.

SO 4 pp.

DT Patent

LA Unavailable

FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE ---------------------PΙ US 3130205 19640421 US 1961-126891 19610726 PRAI US 19610726

Title compds., useful as herbicides, are prepared Thus, 0.175 mole 2-chloro-5-methylphenol and 60 g. anhydrous K2CO3 were placed in a bomb with 100 g. clay saddles and pressured to 600 lb./in.2 with CO2. After being heated at 150° for 26 hrs. the bomb was cooled to give 81% 3-chloro-6-methylsalicylic acid (I), m. 174-6°. I (0.15 mole) was treated with 0.3 mole Me2SO4 to yield 2-methoxy-3-chloro-6-methylbenzoic acid (II), m. 102-3°. The Na salt of II was prepared by treating 0.5 mole II in 500 cc. MeOH with 0.5 mole NaOH in 100 cc. MeOH. The following salts of II were also prepared: ammonium, Me2NH, diethanolamine, and morpholine. II (0.5 mole), 0.5 mole EtOH, and 3 g. p-MeC6H4SO3H in benzene was refluxed to form the Et ester. The decyl and Bu esters were also prepared The amide of II was prepared via the acid chloride (III). The N-n-decylamide and N,N-diethylamide were similarly prepared III (1 mole) was added to 2 moles dry C5H5N in 1 l. dry benzene, and 1 mole II was added rapidly to the mixture to form the anhydride of II.

IT 856310-21-9P, o-Anisic acid, 3-chloro-6-methyl-, sodium salt RL: PREP (Preparation)

(preparation of)

RN 856310-21-9 CAPLUS

CN o-Anisic acid, 3-chloro-6-methyl-, sodium salt (7CI) (CA INDEX NAME)

Na

ANSWER 78 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L5 ΑN 1930:25907 CAPLUS DN 24:25907 OREF 24:2739c-d TI 4-Bromophthalic anhydride and derivatives. I. ΑU Waldmann, Hans SO Journal fuer Praktische Chemie (Leipzi (1930), 126, 65-8 CODEN: JPCEAO; ISSN: 0021-8383 DT Journal LA Unavailable AB Adding 120 g. Br during 3 h. with stirring and cooling to 37 g. C6H4(CO)2O and 50 g. NaOH in 285 g. H2O, then heating 24 h. at 60°, gives 80% of 4-bromophthalic acid (I), m. 169°; distillation of I gives 4-bromophthalic anhydride (II), m. 107°, b. 305-9°, which with PCl5 at 160-70° for 8 h. gives the dichloride of I, m. 168°. II, MeOH and concentrated H2SO4 give the di-Me ester of I, b. 303-6°, m. 40°. II and CO(NH2)2, heated at 150°, give 4-bromophthalimide, m. 229-5°, whose constitution was established by conversion with NaOCl into 4-bromoanthranilic acid. IT 87639-57-4P, Phthalic acid, 4-bromo-, dimethyl ester RL: PREP (Preparation) (preparation of) RN 87639-57-4 CAPLUS 1,2-Benzenedicarboxylic acid, 4-bromo-, dimethyl ester (9CI) CN (CA INDEX NAME).

ANSWER 79 OF 79 CAPLUS COPYRIGHT 2007 ACS on STN L5 AN 1922:6213 CAPLUS DN16:6213 OREF 16:1088b-g TI Friedel and Craft's reaction. Some substituted phthalic anhydrides with toluene and aluminium chloride ΑU Lawrance, Walter A. Journal of the American Chemical Society (1921), 43, 2577-81 so CODEN: JACSAT; ISSN: 0002-7863 DTJournal Unavailable LΑ

cf. C. A. 15, 94. As shown in the earlier paper, an unsym. phthalic AB anhydride with C6H6 may give 2 acid products. In some of the expts. with PhMe described in this paper 2 acid products were obtained, in others only one. The sym. tetrahalophthalic anhydrides, as was to be expected, give only 1 acid product. The toluylnitrobenzoic acids are brownish amorphous powders with no sharp m. p. In all the acids obtained the PhMe is represented as entering the p-position to the Me group. The Na, K and NH4 salts of the toluyltetrahalobenzoic acids are only slightly soluble in H2O. 3-O2NC6H3(CO)2O gives 51% of a mixture separated by means of MeOH into the less soluble 6-p-toluyl-2-nitrobenzoic acid, m. 262-5° (decomposition), hydrolyzed by KOH at 215° to p-MeC6H4CO2H and o-O2NC6H4CO2H and synthesized (53% yield) from 3,2-O2N(EtO2C)C6H3COCl, PhMe and AlCl3, and the more soluble 2,3-isomer, darkens 105-7°, decomps. 122-6°, hydrolyzed to p-MeC6H4CO2H and m-O2NC6H4CO2H and synthesized from 2,6-02N(Et02C)C6H3COCl, PhMe and AlCl3. 4-02NC6H3(CO)2O gives almost entirely the alc.-sol, 2-p-toluyl-4-nitrobenzoic acid, m. 105° (decomposition), hydrolyzed to p-MeC6H4CO2H and p-O2NC6H4CO2H and synthesized (55% yield) from 3,6-O2N(MeO2C)C6H3COCl, PhMe and AlCl3, and a small amount of a less soluble acid m. 211-8° (decomposition). 3-AcNHC6H4(CO)2O gave the 2(or 6)-p-toluyl-3(or 2) -aminobenzoic acids, separated into a

portion (yield, 20%), m. 256-7°, and the Na2CO3-insol. isomer (40%), m. 206°; on hydrolysis both yield only p-MeC6H4CO2H and BzOH; attempts to synthesize them by reduction of the NO2 acids with FeSO4 or Zn-AcOH were unsatisfactory, owing, partly, to the limited amount of the acids available. 4-Ac-NHC6H4(CO)2O gives 62% of the 2(or 6)-p-toluyl-4(or 3)-aminobenzoic acids, consisting chiefly of the isomer m. 135-6°, with only a small amount of the acid m. 180-3°. C6Cl4-(CO)2O gives 94% 6-p-toluyl-2,3,4,5-tetrachlorobenzoic acid, m. 174.5°; methyl ester, m. 96-7°. Tetrabromo acid (yield, 89%), m. 212°; methyl ester, m. 162.5°. Tetraiodo acid (yield, 91%), m. 266°; methyl ester, m. 199°.

IT 861781-99-9P, Benzoic acid, 2,3,4,5-tetrachloro-6-p-toluyl-, methyl ester

RN 861781-99-9 CAPLUS

Na2CO3-soluble

CN Benzoic acid, 2,3,4,5-tetrachloro-6-p-toluyl-, methyl ester (2CI) (CA INDEX NAME)

---Logging off of STN---

Executing the logoff script...

patents

NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),

AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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* * STN Columbus * *

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FULL ESTIMATED COST

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=> s 5-iodo-2-methylbenzoic acid

6405842 5

53660 IODO

9181291 2

3872 METHYLBENZOIC

4383782 ACID

1577237 ACIDS

4882753 ACID

(ACID OR ACIDS)

9 5-IODO-2-METHYLBENZOIC ACID

(5 (W) IODO (W) 2 (W) METHYLBENZOIC (W) ACID)

=> s zeolite

L1

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L2
        122702 ZEOLITE
                  (ZEOLITE OR ZEOLITES)
=> s L1 and L2
              2 L1 AND L2
L3
=> d L3 1-2 bib abs
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L3
AN
     2005:29295 CAPLUS
DN
     142:134316
     Process for preparation of 5-iodo-2-
TТ
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     Yoshimura, Takafumi; Hidaka, Toshio; Sato, Yoshifumi; Fushimi, Norio;
IN
     Yamada, Kazuhiro
PA
     Mitsubishi Gas Chemical Company, Inc., Japan
SO
     PCT Int. Appl., 36 pp.
     CODEN: PIXXD2
DT
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LΑ
     Japanese
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             LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO,
             NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ,
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     CASREACT 142:134316
AB
     This invention pertains to a method for producing 5-iodo
     -2-methylbenzoic acid by iodizing
     2-methylbenzoic acid in the presence of a microporous compound, iodine, an
     oxidizing agent, and acetic anhydride. By the process, 5-
     iodo-2-methylbenzoic acid, which is
     useful in functional chems. such as medicines, can be easily obtained as a
     high-purity compound in a high yield. The production steps comprising reaction
     and separation/purification are simple from the standpoint of process
operation and
     the purification load is small. Furthermore, the microporous compound, e.g., a
     zeolite catalyst, separated and recovered from the liquid resulting from
     the reaction can be repeatedly used after a simple treatment.
     Consequently, the catalyst has a long life and the target compound can be
     produced by the efficient process.
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101040 ZEOLITE

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
L_3
     2004:675704 CAPLUS
ΑN
     141:206911
DN
     Process for preparation of iodine compounds and production of high-purity
TI
     5-iodo-2-methylbenzoic acid
     Hidaka, Toshio; Yoshimura, Takafumi; Sato, Yoshifumi; Fushimi, Norio;
ΙN
     Doya, Masaharu
     Mitsubishi Gas Chemical Company, Inc., Japan
PA
SO
     PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
DT
     Patent
LA
     Japanese
FAN.CNT 1
     PATENT NO.
                         KIND
                                DATE
                                            APPLICATION NO.
                                                                  DATE
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     JP 2003-32671
                                20030210
                         Α
     WO 2004-JP1367
                         W
                                20040210
     CASREACT 141:206911; MARPAT 141:206911
os
     This invention pertains to a method for the production of iodine compds. by
AB
     reacting iodine with a substrate either in the presence of a porous compound
     having a pore diameter of 500 nm or below or in the presence of such a porous
     compound and an oxidizing agent; and a process for the production of
high-purity
     5-iodo-2-methyl- benzoic acid which comprises the iodination step
     according to the above process, the crystallization/separation step of
precipitating the
     reaction product either by the addition of water or by cooling and separating
the
     precipitated crystalline substance, and the purification step of recrystg. the
crystalline
     substance from an organic solvent. According to the former process, iodine
     can be introduced into various substrates with high selectivity without
     using any expensive metal or any special reagent, so that the process can
     be easily carried out industrially and can give high-purity products.
     According to the latter process, 5-iodo-2-
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methylbenzoic acid useful in the field of functional

chems. such as drugs can be easily produced at high purity and in high

yield.

⁻⁻⁻Logging off of STN---

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=> s 2-methyl benzoic acid
       9223036 2
       1015662 METHYL
           679 METHYLS
       1016076 METHYL
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        944817 ME
         10774 MES
        951570 ME
                 (ME OR MES)
       1624643 METHYL
                 (METHYL OR ME)
         92641 BENZOIC
            14 BENZOICS
         92651 BENZOIC
                  (BENZOIC OR BENZOICS)
       4403313 ACID
       1582459 ACIDS
       4903648 ACID
                 (ACID OR ACIDS)
L1
            28 2-METHYL BENZOIC ACID
                 (2 (W) METHYL (W) BENZOIC (W) ACID)
=> s iodination
         16354 IODINATION
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L_2
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=> s L1 and L2
             1 L1 AND L2
=> d L3 bib abs
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     2004:675704 CAPLUS << LOGINID::20070718>>
AN
DN
     141:206911
     Process for preparation of iodine compounds and production of high-purity
TI
     5-iodo-2-methylbenzoic acid
IN
     Hidaka, Toshio; Yoshimura, Takafumi; Sato, Yoshifumi; Fushimi, Norio;
     Doya, Masaharu
PA
     Mitsubishi Gas Chemical Company, Inc., Japan
SO
     PCT Int. Appl., 37 pp.
     CODEN: PIXXD2
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     Patent
LΑ
     Japanese
FAN.CNT 1
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PRAI JP 2003-32187
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     WO 2004-JP1367
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                                20040210
     CASREACT 141:206911; MARPAT 141:206911
     This invention pertains to a method for the production of iodine compds. by
     reacting iodine with a substrate either in the presence of a porous compound
     having a pore diameter of 500 nm or below or in the presence of such a porous
     compound and an oxidizing agent; and a process for the production of
high-purity
     5-iodo-2-methyl- benzoic acid
     which comprises the iodination step according to the above
     process, the crystallization/separation step of precipitating the reaction
product either by
     the addition of water or by cooling and separating the precipitated
crystalline substance, and
     the purification step of recrystg. the crystalline substance from an organic
solvent.
     According to the former process, iodine can be introduced into various
     substrates with high selectivity without using any expensive metal or any
     special reagent, so that the process can be easily carried out
     industrially and can give high-purity products. According to the latter
     process, 5-iodo-2-methylbenzoic acid useful in the field of functional
     chems. such as drugs can be easily produced at high purity and in high
     yield.
=> s 2-methylbenzoic acid
       9223036 2
          3913 METHYLBENZOIC
       4403313 ACID
       1582459 ACIDS
       4903648 ACID
                 (ACID OR ACIDS)
L4
           946 2-METHYLBENZOIC ACID
                 (2(W)METHYLBENZOIC(W)ACID)
=> s 5-iodo-2-methylbenzoic acid
       6434990 5
         53798 IODO
       9223036 2
          3913 METHYLBENZOIC
       4403313 ACID
       1582459 ACIDS
       4903648 ACID
                 (ACID OR ACIDS)
L5
             9 5-IODO-2-METHYLBENZOIC ACID
                 (5 (W) IODO (W) 2 (W) METHYLBENZOIC (W) ACID)
=> d L5 bib abs
L5
     ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
ΑN
     DN
     144:273927
TI
     Adamantyl derivatives as P2X7 receptor antagonists, their preparation,
     pharmaceutical compositions, and use in therapy
     Ford, Rhonan; Martin, Barrie; Thompson, Toby; Tomkinson, Nicholas; Willis,
IN
     Paul
     Astrazeneca AB, Swed.
PA
     PCT Int. Appl., 183 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
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PATENT NO.
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                                        APPLICATION NO.
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os
    MARPAT 144:273927
GI
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

The invention relates to compds. of formula I, which are P2X7 receptor AB antagonists, useful for the treatment of inflammatory, immune, or cardiovascular diseases. In compds. I, m is 1, 2 or 3; each R1 is independently either H or a halogen; A is C(O)NH or NHC(O); and Ar is substituted Ph or substituted pyridinyl; including pharmaceutically acceptable salts or solvates thereof. The invention also relates to the preparation of I, pharmaceutical compns. comprising a compound of formula I in assocation with a pharmaceutically acceptable adjuvant, diluent, or carrier, as well as to the use of the compns. for the treatment of inflammatory, immune, or cardiovascular diseases. Borination of benzamide II with triisopropyl borate followed by hydrolysis, Suzuki coupling with Me 5-bromo-3-pyridinecarboxylate, and ester hydrolysis resulted in the formation of N-(adamantylmethyl)benzamide III. The compds. of the invention were tested for P2X7 antagonistic activity and all expressed pIC50 values higher than 5.5, e.g., compound III expressed pIC50 of 6.8.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d L5 1-9 bib abs

- L5 ANSWER 1 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2006:209789 CAPLUS <<LOGINID::20070718>>
- DN 144:273927

FAN.CNT 1

- TI Adamantyl derivatives as P2X7 receptor antagonists, their preparation, pharmaceutical compositions, and use in therapy
- IN Ford, Rhonan; Martin, Barrie; Thompson, Toby; Tomkinson, Nicholas; Willis,
 Paul
- PA Astrazeneca AB, Swed.
- SO PCT Int. Appl., 183 pp. CODEN: PIXXD2
- DT Patent
- LA English

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                                                                   APPLICATION NO.
                                                                                                      DATE
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             R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
                   IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR
                                                 20040830
                                       Α
PRAI SE 2004-2103
                                       A
       SE 2004-3054
                                                 20041215
                                       Α
                                                 20050406
       SE 2005-766
       WO 2005-SE1251
                                       W
                                              . 20050829
os
       MARPAT 144:273927
GI
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- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The invention relates to compds. of formula I, which are P2X7 receptor AB antagonists, useful for the treatment of inflammatory, immune, or cardiovascular diseases. In compds. I, m is 1, 2 or 3; each R1 is independently either H or a halogen; A is C(O)NH or NHC(O); and Ar is substituted Ph or substituted pyridinyl; including pharmaceutically acceptable salts or solvates thereof. The invention also relates to the preparation of I, pharmaceutical compns. comprising a compound of formula I in assocation with a pharmaceutically acceptable adjuvant, diluent, or carrier, as well as to the use of the compns. for the treatment of inflammatory, immune, or cardiovascular diseases. Borination of benzamide II with triisopropyl borate followed by hydrolysis, Suzuki coupling with Me 5-bromo-3-pyridinecarboxylate, and ester hydrolysis resulted in the formation of N-(adamantylmethyl)benzamide III. The compds. of the invention were tested for P2X7 antagonistic activity and all expressed pIC50 values higher than 5.5, e.g., compound III expressed pIC50 of 6.8.
- RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT
- L5 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
- AN 2005:29295 CAPLUS <<LOGINID::20070718>>
- DN 142:134316

FAN.CNT 1

- TI Process for preparation of 5-iodo-2methylbenzoic acid
- IN Yoshimura, Takafumi; Hidaka, Toshio; Sato, Yoshifumi; Fushimi, Norio; Yamada, Kazuhiro
- PA Mitsubishi Gas Chemical Company, Inc., Japan
- SO PCT Int. Appl., 36 pp.
- CODEN: PIXXD2
- DT Patent
- LA Japanese
- FAN.CNT 1

PATENT NO. KIND DATE APPLICATION NO. DATE

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WO 2005003073
                                    20050113
                                               WO 2004-JP9696
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              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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                                                  JP 2003-270652
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      JP 2005139079
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     EP 1642881
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                                    20060405
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              CH, DE, FR, GB, IT, LI
      CN 1812954
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                                    20060727 .
      US 2006167312
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                             A1
                                                                            20051230
PRAI JP 2003-270652
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     JP 2003-374482
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      JP 2003-374483
                             Α
                                    20031104
     WO 2004-JP9696
                             W
                                    20040701
OS
     CASREACT 142:134316
AB
     This invention pertains to a method for producing 5-iodo
      -2-methylbenzoic acid by iodizing
      2-methylbenzoic acid in the presence of a microporous compound, iodine, an
     oxidizing agent, and acetic anhydride. By the process, 5-
      iodo-2-methylbenzoic acid, which is
     useful in functional chems. such as medicines, can be easily obtained as a
     high-purity compound in a high yield. The production steps comprising reaction
     and separation/purification are simple from the standpoint of process
operation and
      the purification load is small. Furthermore, the microporous compound, e.g., a
      zeolite catalyst, separated and recovered from the liquid resulting from the
     reaction can be repeatedly used after a simple treatment. Consequently,
      the catalyst has a long life and the target compound can be produced by the
      efficient process.
RE.CNT 18
                THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
                ALL CITATIONS AVAILABLE IN THE RE FORMAT
     ANSWER 3 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
L5
AN
     2004:675704 CAPLUS <<LOGINID::20070718>>
DN
     141:206911
ΤI
     Process for preparation of iodine compounds and production of high-purity
     5-iodo-2-methylbenzoic acid
     Hidaka, Toshio; Yoshimura, Takafumi; Sato, Yoshifumi; Fushimi, Norio;
IN
     Doya, Masaharu
PA
     Mitsubishi Gas Chemical Company, Inc., Japan
     PCT Int. Appl., 37 pp.
so
     CODEN: PIXXD2
DT
     Patent
     Japanese
LA
FAN.CNT 1
     PATENT NO.
                            KIND
                                    DATE
                                                  APPLICATION NO.
                                                                            DATE
                            ----
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PΙ
     WO 2004069772
                             A1
                                    20040819
                                                 WO 2004-JP1367
                                                                            20040210
              AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
               CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
               GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK,
               LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO
          RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE,
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PI

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BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,
             MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,
             GQ, GW, ML, MR, NE, SN, TD, TG
                                20040924
                                            JP 2003-32187
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     JP 2004262769
                          Α
     JP 2004262770
                          Α
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                                20051116
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     EP 1595862
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            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     CN 1747910
                                20060315
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     US 2006161028
                         Al
                                20060720
                                            US 2006-545005
                                                                   20060302
PRAI JP 2003-32187
                         Α
                                20030210
     JP 2003-32671
                          Α
                                20030210
                                20040210
     WO 2004-JP1367
                         W
OS
     CASREACT 141:206911; MARPAT 141:206911
     This invention pertains to a method for the production of iodine compds. by
AB
     reacting iodine with a substrate either in the presence of a porous compound
     having a pore diameter of 500 nm or below or in the presence of such a porous
     compound and an oxidizing agent; and a process for the production of
high-purity
     5-iodo-2-methyl- benzoic acid which comprises the iodination step
     according to the above process, the crystallization/separation step of
precipitating the
     reaction product either by the addition of water or by cooling and separating
the
    precipitated crystalline substance, and the purification step of recrystg. the
crystalline
     substance from an organic solvent. According to the former process, iodine
     can be introduced into various substrates with high selectivity without
     using any expensive metal or any special reagent, so that the process can
     be easily carried out industrially and can give high-purity products.
     According to the latter process, 5-iodo-2-
     methylbenzoic acid useful in the field of functional
     chems. such as drugs can be easily produced at high purity and in high
    yield.
L5
    ANSWER 4 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN .
     ΑN
DN
     139:323536
     Preparation of [2-(2-alkoxyphenyl)cyclopent-1-enyl] substituted
TI
     (hetero)aromatic carboxylic acids with high affinity to the EP1 receptor
IN
     Giblin, Gerard Martin Paul; Hall, Adrian; Hurst, David Nigel; Kilford, Ian
     Reginald; Lewell, Xiao Qing; Naylor, Alan; Novelli, Riccardo
PA
     Glaxo Group Limited, UK
SO
     PCT Int. Appl., 180 pp.
     CODEN: PIXXD2
DT
     Patent
     English
LA.
FAN.CNT 1
     PATENT NO.
                         KIND
                                           APPLICATION NO.
                                                                  DATE
                               DATE
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                                           ______
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                         A1
                                20031016
                                           WO 2003-EP3661
                                                                   20030407
PΙ
    WO 2003084917
        W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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    CA 2481035
                          A1
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                                           CA 2003-2481035
                                                                  20030407
    AU 2003216920
                          A1
                                20031020
                                           AU 2003-216920
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    EP 1492757
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                                20050105
                                           EP 2003-712136
                                                                  20030407
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R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                 20050111
                                             BR 2003-9014
                                                                     20030407
     BR 2003009014
                          Α
     JP 2005522477
                          Т
                                 20050728
                                                                     20030407
                                             JP 2003-582116
                                 20050824
                                                                     20030407
     CN 1659131
                          Α
                                             CN 2003-812587
     ZA 2004007105
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                                 20060726
                                             ZA 2004-7105
                                                                     20040906
     US 2005239802
                          Al
                                 20051027
                                             US 2004-508761
                                                                     20040922
                          B2
                                 20070619
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                                                                     20041007
     MX 2004PA09800
                          Α
                                 20041213
                                             MX 2004-PA9800
                                             NO 2004-4689
                                                                     20041029
     NO 2004004689
                          Α
                                 20041029
                          Α
PRAI GB 2002-8045
                                 20020408
                          ·A
     GB 2003-2881
                                 20030207
     WO 2003-EP3661
                          W
                                 20030407
os
     MARPAT 139:323536
GΙ
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The title compds. [I; A = (un)substituted Ph, 5-6 membered heterocyclyl, bicyclic heterocyclyl; R1 = CO2R4, CONR5R6, CH2CO2R4, alkyl, etc.; R2 = halo, alkyl, CN, etc.; R3 = alkyl wherein 1 or 2 of the non-terminal carbon atoms may optionally be replaced by NR4, O, SOn (n = 0-2), etc.; R4, R5 = H, alkyl; R6 = H, alkyl, SO2aryl, etc.; R8, R9 = H, alkyl; n = 0-2], useful for treating condition which is mediated by the action of PGE2 at EP1 receptors, were prepared E.g., a multi-step synthesis of [2-(5-chloro-2-benzyloxyphenyl)cyclopent-1-enyl]benzoic acid (starting from 1,2-dibromocyclopentene and (3-ethoxycarbonylphenyl)boronic acid), was given. The compds. I had an antagonist pIC50 value of between 7.0 and 9.5 at EP1 receptors and pIC50 value of <6.0 at EP3 receptors. Pharmaceutical composition comprising the compound I is claimed.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2003:239838 CAPLUS <<LOGINID::20070718>>

DN 138:273299

TI Method for separation and purification of 3-iodo-2-methylbenzoic acid and 5-iodo-2-methylbenzoic acid

IN Aizawa, Akira; Nakamura, Eiji

PA Ise Chemical Industries Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.		KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2003089673	A	20030328	JP 2001-282541	20010918
PRAI	JP 2001-282541		20010918		

AB In the title method, 3-iodo-2-methylbenzoic acid (I) and 5-iodo-2-methylbenzoic acid (II) are converted into their alkali metal salts, and the pH of the aqueous solution of alkali metal salts of I and II is adjusted to 5 ± 0.5 at room temperature to give II crystals which are collected by filtration, then acid is added to

the filtrate to adjust the pH to the range of 2 - 3 to give I crystals. II (with 98.4% purity) was obtained by the title method. ANSWER 6 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN L5 AN DN 138:89580 TI Preparation of monoiodomethylbenzoic acid Ikari, Kazuo; Takayama, Koji; Aizawa, Akira IN. PΑ Ise Chemical Industries Co., Ltd., Japan SO Jpn. Kokai Tokkyo Koho, 4 pp. CODEN: JKXXAF DTPatent LΑ Japanese FAN.CNT 1 APPLICATION NO. PATENT NO. KIND DATE DATE --------------------_____ JP 2003012597 Α 20030115 JP 2001-200987 20010702 PRAI JP 2001-200987 20010702 CASREACT 138:89580 AB The compound is prepared by direct iodination of methylbenzoic acid with iodinating agents in the presence of acid catalysts in solvents. 2-Methylbenzoic acid was reacted with I and periodic acid in the presence of H2SO4 in AcOH under reflux for 7 h to give 54% reaction product mixture containing 3.2% 3-iodo-2-methylbenzoic acid and 95.7% 5-iodo -2-methylbenzoic acid. ANSWER 7 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN L5 AN DN 134:71593 ΤI Preparation of imidazoline derivatives for the treatment of diabetes, especially type II diabetes IN Paal, Michael; Ruehter, Gerd; Schotten, Theo Eli Lilly and Company, USA PΑ SO PCT Int. Appl., 143 pp. CODEN: PIXXD2 DT Patent LΑ English FAN.CNT 1 PATENT NO. DATE APPLICATION NO. KIND DATE ______ ---------WO 2000078726 **A1** 20001228 WO 2000-US11881 20000619 ΡI W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

20001220

19990618

Α

Α

GB 1999-14222

19990618

PRAI GB 1999-14222 OS MARPAT 134:71593

GB 2351081

GΙ

AB The title compds. [I; R1-R4 = H, alkyl; R1 and R3, together with the carbon atoms to which they are attached, combine to form a C3-7 carbocyclic ring and R2 and R4 = H, alkyl; R1 and R2, together with the carbon atom to which they are attached combine to form a C3-7 spirocarbocyclic ring and R3 and R4 = H, alkyl; R3 and R4, together with the carbon atom to which they are attached combine to form a C3-7 spirocarbocyclic ring and R1 and R2 = H, alkyl; R5 = H, alkyl, aryl, etc.; R6 = H, alkyl, alkoxy, etc.; R7 = H, alkyl, alkoxy, etc.; Y = NHCONH, NHCO, a bond, etc.; A = a monocyclic or bicyclic ring; R8 = H, alkyl, alkenyl, etc.; R9, R10 = H, alkyl, alkoxy, etc.], useful for the treatment of diabetes, diabetic complications, metabolic disorders, or related diseases where impaired glucose disposal is present (no data), were prepared and formulated. E.g., a multi-step synthesis of the imidazoline II.HCl The compds. I are effective at 0.1-5 mg/kg/day. was given.

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1990:15886 CAPLUS <<LOGINID::20070718>>

DN 112:15886

TI Pharmacokinetics of sodium 4- $[\alpha$ -hydroxy-5-(1-imidazolyl)-2-methylbenzyl]-3,5-dimethylbenzoate (Y-20811), a new thromboxane synthetase inhibitor. I. Isolation and structure elucidation of urinary metabolite in dogs.

AU Iwata, Toshio; Tsuruda, Mineo; Demizu, Kenichi; Isobe, Masao; Takamatsu, Rikuo; Yokobe, Tetsuo

CS Res. Lab., Yoshitomi Pharm. Ind. Ltd., Fukuoka, 871, Japan

SO Yakugaku Zasshi (1989), 109(9), 636-41 CODEN: YKKZAJ; ISSN: 0031-6903

DT Journal

LA Japanese

GI

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The urinary metabolites of Y-20811 (I) in dogs were investigated. The
     main metabolite was isolated by HPLC and subsequent preparative TLC. The
     structure of this metabolite was established as 4-[\alpha-hydroxy-2-
     hydroxymethyl-5-(1-imidazolyl)benzyl]-3,5-dimethylbenzoic acid (II) on the
     basis of spectral analyses and confirmed by its total synthesis.
     ANSWER 9 OF 9 CAPLUS COPYRIGHT 2007 ACS on STN
L5
     1946:8333 CAPLUS <<LOGINID::20070718>>
AΝ
     40:8333
DN
OREF 40:1473c-h
     Reactions of acetophenols with iodine and pyridine and the preparation of
TI
     hydroxybenzoic acids
ΑU
     King, L. Carroll; McWhirter, Margaret; Barton, Daniel M.
CS
     Northwestern Univ., Evanston, IL
SO
     Journal of the American Chemical Society (1945), 67, 2089-92
     CODEN: JACSAT; ISSN: 0002-7863
DT
     Journal
LA
     Unavailable
OS
     CASREACT 40:8333
AB
     cf. C.A. 38,3981.1, 5842.4. In the following 0.1 mol of the
     hydroxyacetophenones, 0.1 mol iodine, and 40 g. C5H5N were heated 1 h. on
     the steam bath, the reaction mixture allowed to stand overnight, and the
     product washed with ether and then with cold H2O; the aqueous solution of the
     iodide and HClO4 give the perchlorates. The crude yields of the iodides
     are given, since purification causes considerable losses. Cleavage with NaOH
     gives the corresponding benzoic acids. o-HOC6H4Ac gives
     1-(R-benzoylmethyl)pyridinium iodide (I); where R = 2-hydroxy, 19 g., m.
     211-15° (perchlorate, m. 193-6°); 85% o-HOC6H4CO2H, m.
     156-8°. I, R = 2-hydroxy-5-Me, 29 g., m. 180-2°
     (perchlorate, m. 201-3°); 95% of 5,2-Me(HO)C6H3CO2H, m.
     148-50°. I, R = 2-hydroxy-4-Me, 23 g., m. 215-17°
     (perchlorate, m. 212-15°); 44% of 4,2-Me(HO)C6H3CO2H, m.
     172-4°. I, R = 2-hydroxy-3-Me, 24 g., m. 217-18.°
     (perchlorate, m. 225-35°); 75% of 3,2-Me(HO)C6H3CO2H, m.
     158-60°. In the case of m- and p-HOC6H4Ac, the reaction gives an
     isomer of I and an iodine derivative, which can be separated by the greater
solubility
     of the former in H2O or dilute EtOH. m-HOC5H4Ac gives 18 g. of I, R =
     3-hydroxy, m. 223-8° (perchlorate, m. 224-6°) (40% of
     m-HOC6H4CO2H, m. 197-201°), and 1.2 g. of I, R = 3-hydroxy-4-iodo,
     m. 239-42° (perchlorate, m. 260-3°) (95% of
     4,3-I(HO)C6H3CO2H, m. 226-30^{\circ}). p-HOC6H4Ac gives 17 g. of I, R = 4-hydroxy, m. 215-19^{\circ} (perchlorate, m. 181-3^{\circ}) (98% of
     p-HOC6H4CO2H, m. 212-13°), and 8.7 g. of I, R = 4-hydroxy-3-iodo,
     m. 235-40° (perchlorate, m. 253-7°) (79% of
     3,4-I(HO)C6H3CO2H, m. 172-5°). I, R = 4-hydroxy-3-Me, 29 g., m.
     220-7° (perchlorate, m. 237-40°) (75% of 3,4-Me(HO)C6H3CO2H,
     m. 172-4°), and 2.5 g. of I, R = 4-hydroxy-5-iodo-3-Me, m.
     227-32° (perchlorate, m. 239-42°) (67% of
     4-hydroxy-5-iodo-3-methylbenzoic acid, m. 216-18°).
     4-hydroxy-2-Me, 20 g., m. 246-8° (perchlorate, m. 196-9°)
     (82\% \text{ of } 2,4-\text{Me}(\text{HO})\text{C6H3CO2H}, \text{ m. } 177-9^{\circ}), \text{ and } 11 \text{ g. of I, R} =
     4-hydroxy-5-iodo-2-Me, m. 240-4° (perchlorate, m. 260-6°)
     (61% of 4-hydroxy-5-iodo-2-
     methylbenzoic acid, m. 210-12°).
     1-(2,4-Dihydroxybenzoylmethyl)pyridinium iodide, m. 241-2°
     (perchlorate, m. 253-5°); 72% of 2,4-(HO)2C6H3CO2H, m.
     218-19°.
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104 IODINATIONS

16382 IODINATION

(IODINATION OR IODINATIONS)

92641 BENZOIC

14 BENZOICS

92651 BENZOIC

(BENZOIC OR BENZOICS)

1582459 ACIDS

1 IODINATION OF BENZOIC ACIDS

(IODINATION (1W) BENZOIC (W) ACIDS)

=> d L6 bib abs

L6



L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1984:67569 CAPLUS <<LOGINID::20070718>>

DN 100:67569

TI Kinetics of iodination of some substituted benzoic acids by N-iodosuccinimide

AU Radhakrishnamurti, P. S.; Panda, B. K.

CS Dep. Chem., Berhampur Univ., Berhampur, 760 007, India

SO Indian Journal of Chemistry, Section A: Inorganic, Physical, Theoretical & Analytical (1983), 22A(9), 770-3

CODEN: IJCADU; ISSN: 0376-4710 DT Journal

LA English

AB The iodination of RC6H4CO2H (R = p-NH2, o-OH, p-OH, o-AcNH, p-AcNH, o-MeO, p-MeO, o-NH2) by N-iodosuccinimide (I) in mixts. of AcOH and HClO4 follows first-order kinetics with respect to the halogenating agent. I and protonated I form intermediate complexes with the substrate; this is substantiated by a low ρ (-1.6) and high neg. entropy. The complexes are cleaved in slow steps to give the intermediate products which rearrange to stable nuclear iodinated products in subsequent steps.

=> FIL SINGUIDE		•
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	68.94	69.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
•	ENTRY	SESSION
CA SUBSCRIBER PRICE	· -9.36	-9.36

FILE 'STNGUIDE' ENTERED AT 07:57:57 ON 18 JUL 2007 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

FILE CONTAINS CURRENT INFORMATION. LAST RELOADED: Jul 13, 2007 (20070713/UP).

---Logging off of STN---

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS

SINCE FILE TOTAL * ENTRY SESSION